

Maryland Hospital Obstetric Services: Trends and 2006 Utilization Forecast

**Maryland Health Care Commission
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I. Introduction

Background

This report provides historical and projected utilization data and other information to support the ongoing planning efforts of the Maryland Health Care Commission (MHCC) for inpatient obstetric services provided in acute general hospitals. Obstetric service trends were also described in the Commission's *Working Paper: Acute Inpatient Obstetric Services, July 21, 2000*. That working paper became a component of the Commission's Phase I Final Report to the Maryland General Assembly, *An Analysis and Evaluation of Certificate of Need Regulation in Maryland; January 1, 2001*. The MHCC's State Health Plan for Facilities and Services: Acute Hospital Inpatient Obstetric Services, codified as COMAR 10.24.12, also addresses current issues in hospital obstetric services.

The MHCC defines hospital obstetric services by a series of specific diagnostic related groups (DRGs). Figure 1 lists the DRGs that define hospital obstetric services. Approximately 88-90 percent of obstetric service discharges in Maryland are in the DRG categories for normal and Cesarean section deliveries. The other ten percent encompass post- and antepartum diagnoses as listed below.

Figure 1. DRGs Defining Maryland Hospital Obstetric Services

DRG Codes	DRG Description
370 & 371	Cesarean section with or without complications
372, 373, 374 & 375	Vaginal delivery with or without complications, or with other procedures
376, 377, 378, 379, 382, 383 & 384	Postpartum diagnoses, ectopic pregnancy, threatened abortion, false labor, other antepartum diagnoses (the 'non-birth DRGs')

Data Sources

Unless otherwise stated, population data used in this report is from the Maryland Department of Planning. Birth data is from the Maryland Department of Planning and Vital Statistics Administration in the Department of Health and Mental Hygiene; and hospital utilization data is from the Maryland hospital discharge abstract data set collected by the Health Services Cost Review Commission. This report focuses on Maryland's acute care general hospitals.

Organization of the Report

This report describes trends in utilization of hospital obstetric services in Maryland from various perspectives, including the inventory of obstetric services and beds in acute general hospitals, trends and population projections for females 15 to 44 years old in Maryland, trends in

actual and projected births from the Maryland Department of Planning, trends in birth rates and selected birth characteristics such as Cesarean section deliveries, rates of prenatal care and low birth weight, based on information from the Vital Statistics Administration and the Centers for Disease Control, and trends in hospital statistics such as discharges, average length of stay, average daily census, charges and payer mix. Section III of the report describes the methodology used to forecast future hospital obstetric discharges and average daily census on a jurisdiction-specific basis to a target year of 2006, and shows the forecast of discharges and average daily census in relation to current levels. Section IV contains detailed statistical tables on which the discussion in Section III is based. A complete description of the utilization forecast methodology is provided in the Appendix.

II. Overview: Trends in Maryland Hospital Obstetric Service Utilization

Information referenced in this section can be found in the tables in Section IV of this report.

Inventory of Acute Hospital Obstetric Services

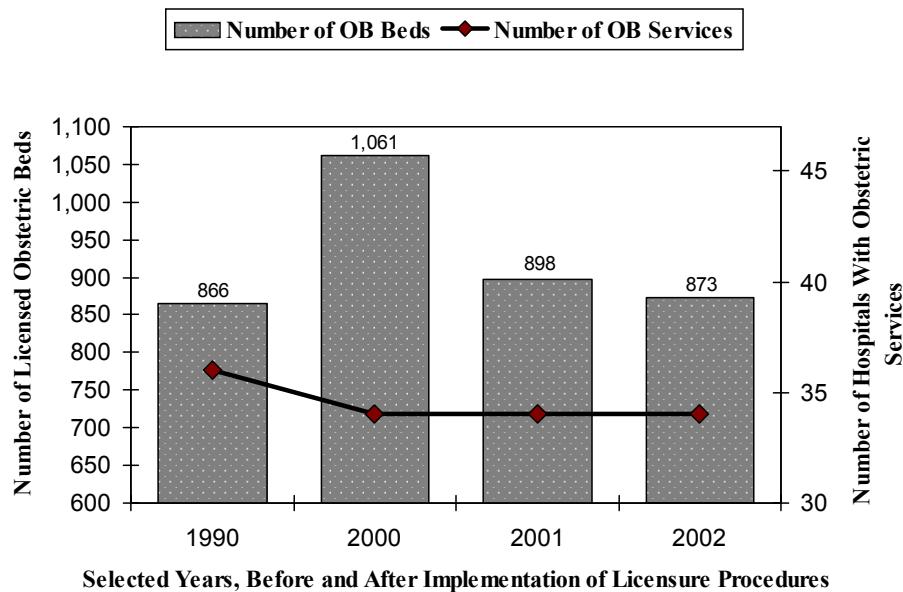
Currently, 34 of Maryland's 47 acute general hospitals have an obstetric service. Table 1 lists all acute general hospitals in Maryland, the number of licensed obstetric beds by hospital in 1990 and in 2002, and shows which hospitals do not have obstetric services. This table also shows which hospitals are part of a multi-hospital system. Prior to the consolidations of obstetric services in the Western Maryland Health System (2000) and the Shore Health System (1997), there were 36 obstetric services in Maryland. Prior to these closures, the availability of hospital obstetric services in Maryland had changed little. In the early 1980s, McCready Hospital closed its obstetric service, and prior to 1980 Suburban Hospital closed its obstetric service. One service was relocated when Upper Chesapeake Health System opened the new Upper Chesapeake Medical Center in 2000, and transferred the obstetric service then at Harford Memorial Hospital to the new hospital.¹ The only new obstetric service opened at Laurel Regional Medical Center in 1987 as a result of the transfer of beds, pursuant to a merger, from Prince George's Hospital Center.

The number of licensed obstetric beds in Maryland, unlike medical-surgical beds, did not change significantly with the implementation in 2000 of the state's new hospital licensure procedures. The total number of licensed acute care general hospital beds declined from 12,328 to 9,555 in the fall of 2000 when hospitals complied with new rules establishing their number of licensed acute care beds based on the previous year's average daily census. With a choice of how to allocate their given number of licensed beds among their acute care services, very few obstetric beds were removed from hospital licenses. The number of licensed obstetric beds today (873) is almost the same as the 866 licensed in 1990. Figure 2 shows the trend in the number of obstetric beds and obstetric services in Maryland.

Although several hospitals have closed since 1990, these hospital closures have not reduced the number of obstetric services, since none of those hospitals had obstetric services at the time of closure.

¹ Fallston General Hospital closed upon the opening of Upper Chesapeake Medical Center.

**Figure 2. Trends in Acute Care Hospital Obstetric Services Inventory:
Maryland, 1990 – 2002**



Source: Maryland Health Care Commission

Population Estimates and Projections: Females of Child-Bearing Age

The 15 to 44 year old female age group is the population category generally associated with obstetric services, and is the basis for the calculations of general fertility rates. Population trends in the 15 to 44 year old female age group are presented in Table 2 and Figure 3 by county and by selected jurisdictions, in five year increments from 1990 to 2020.² The percent change between the five year increments is shown in Table 3. These tables indicate that this population group declined in number by almost 1% between 1990 and 2000.³ Although the numbers increased in the suburban central Maryland counties, southern Maryland and Frederick County, these increases were more than offset by declines in this population in three of the state's four largest jurisdictions: Baltimore City, and Baltimore and Prince George's counties, as shown in Tables 2b and 3b.

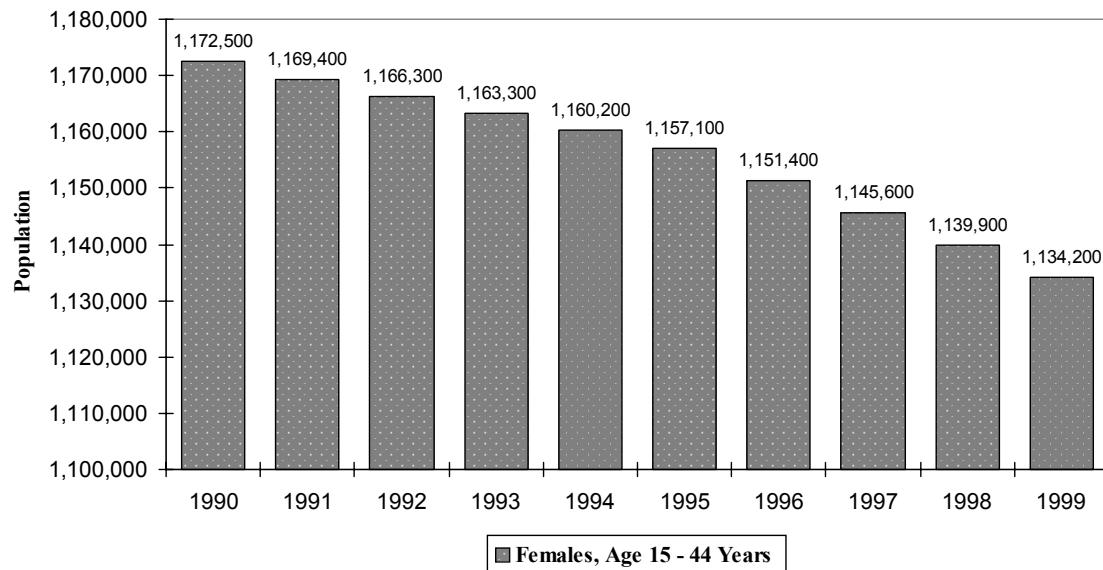
Projections indicate this population group will decline even more between 2000 and 2015, by 2.7%. Most of this decrease is projected for Baltimore City and County, and parts of western Maryland and the Eastern Shore. The largest projected increases are again expected in suburban central Maryland counties, southern Maryland and Frederick County. This population

² This report uses Maryland's household population, excluding group quarters (institutionalized) population.

³ The 2000 population estimate is based on the 2000 Census, and the 1990 and 1995 estimates are based on the 1990 Census. Because intercensal estimates are not yet available, the population figures for years prior to 2000 are subject to change.

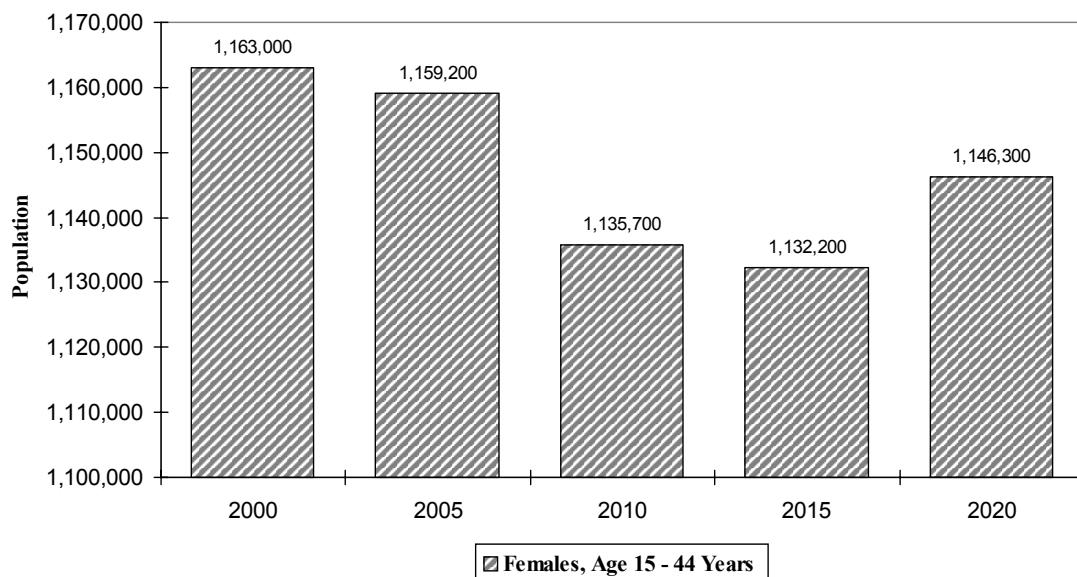
group will begin to increase by 2020. By comparison, the total state population increased over ten percent from 1990 to 2000, and is projected to increase by eight percent from 2000 to 2010, and 6 percent between 2010 and 2020.

Figure 3a. Trend in Historical Population of Women of Child Bearing Age: Maryland, 1990 – 2020



Source: Maryland Department of Planning; 1990 Census

Figure 3b. Trend in Population Estimates of Women of Child Bearing Age: Maryland, 2000 – 2020

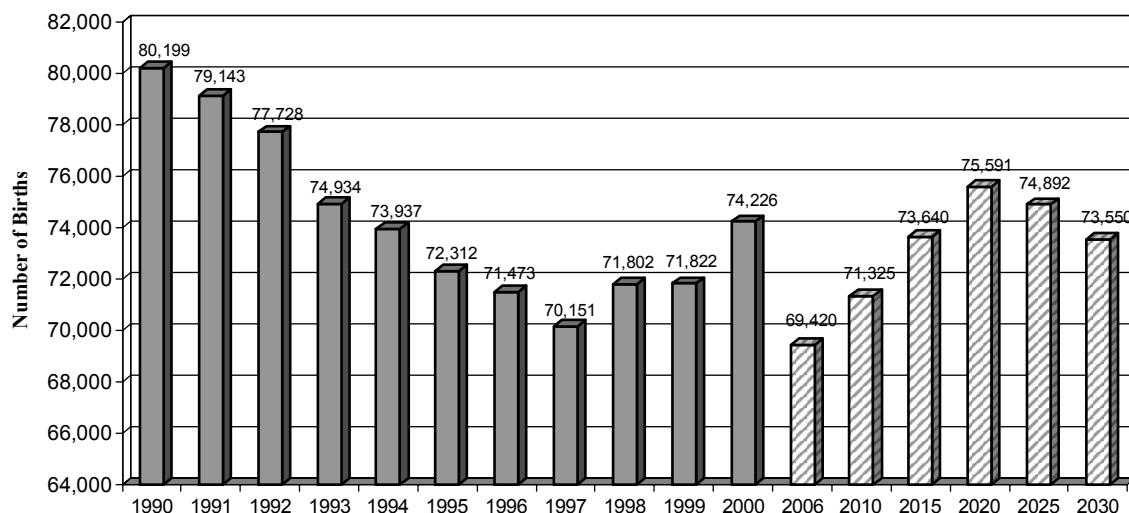


Source: Maryland Department of Planning; 2000 Census

Birth Trends and Projections

The number of births to Maryland residents, as shown in Figure 4, has declined since 1990. Table 4 shows trends in births, by jurisdiction of residence, between 1990 and 2000, the last year for which data is available from the Vital Statistics Administration. The number of births to Maryland residents declined from about 80,200 in 1990 to about 70,100 in 1997, and has shown increases in 1998 through 2000. This is a 7.4% decline in the number of births over the last ten years. Births to Baltimore City residents has declined by over 32 percent, accounting for the largest decline. Births to Montgomery, Frederick and Howard county residents showed notable increases over the same ten year period.

Figure 4. Trend in Actual and Projected Resident Births: Maryland, 1990 - 2000



Source: Maryland Department of Planning

Table 5 shows annual and 5-year birth projections for 2001 through 2030 from the Maryland Department of Planning (MDP). The MDP's annual birth projections are produced for their public school projection report. Their annual projections are based on their 5-year birth data from their population cohort model. This model applies age and race specific fertility rates and population estimates to derive a total number of births for five year increments. The model's fertility rates are derived from historical fertility rates and adjusted as deemed necessary.

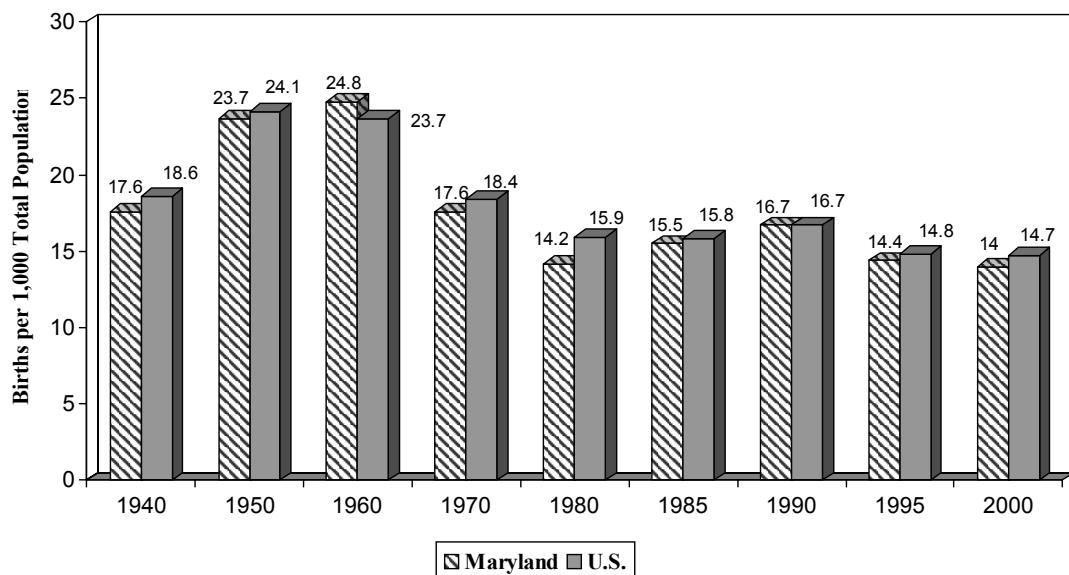
MDP's projection shows that births are expected to decline by about 5 percent between 2001 and 2006, then rise gradually through 2020, and decline again thereafter. The short term decline is projected in most Maryland jurisdictions with the exception of some of the smaller rural counties. The increases projected for later in this decade and the next are most significant for residents of Frederick, Charles, Howard, Calvert and Montgomery county residents. Baltimore City will continue to experience declining births.

Selected Birth Characteristics

Birth Rates

The crude birth rate, which measures births against the total population, has fluctuated over time in Maryland and nationally, as shown in Figure 5. Birth rates declined through the 1990s from a high of 16.7 births per 1,000 total population in 1990 to under 14 by 1999, and have remained at about 14 births per 1,000 since 1998.

Figure 5. Birth Rate Trends, Maryland and U.S., 1940 - 2000



Source: Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports

Fertility Rate

The fertility rate uses the female 15 to 44 year old population rather than total population as the denominator. Maryland fertility rates by jurisdiction are shown in Table 6 through 1999, the latest year for which jurisdiction-specific rates are available from Maryland Vital Statistics. Maryland's fertility rate is historically below the national average, and has declined through the 1990s from 66.9 births per 1,000 in 1990 to a low of 58.8 in 1997, a 12.1% decline over the seven years. This trend has reversed, with increases in the last three consecutive years for a 5% increase. The fertility rate varies by jurisdiction, from a low of approximately 53 in Dorchester, Allegany and Talbot counties to a high of approximately 66 in Washington County and Baltimore City in 1999. The national fertility rate also reflects the trend of decline through the 1990s, with a 3.8% increase in the last three years. Figure 6 shows a general comparison of the trend in the Maryland fertility rate with the U.S. fertility rate from 1990 to 2000.

Figure 6. Comparison of Maryland and U.S. Fertility Rates, Selected Years

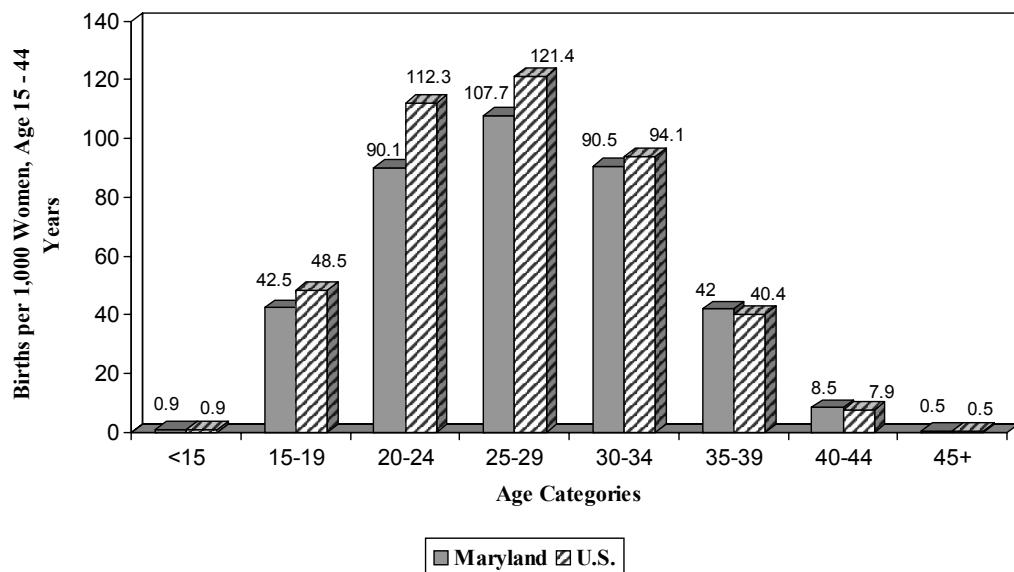
	1990	1995	2000
Maryland Births	80,200	72,300	74,200
Maryland Fertility Rate	66.9	60.4	61.9
U.S. Fertility Rate	70.9	65.6	67.5

Sources: Maryland Hospital Discharge Abstract; Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports

Birth Rates by Age of Mother

Age specific birth rates provide a more detailed picture of birth trends. Figure 7 shows current birth rates by age category for Maryland and for the U.S. Nationally, women in their 20s, and generally women between 25 and 29 years of age, have the highest birth rates, and birth rates decline sharply in the early 30s. In Maryland, however, the birth rate for women in their early 30s is about the same as for women in their early 20s.

Figure 7. Birth Rate Comparison by Age Category, 2000



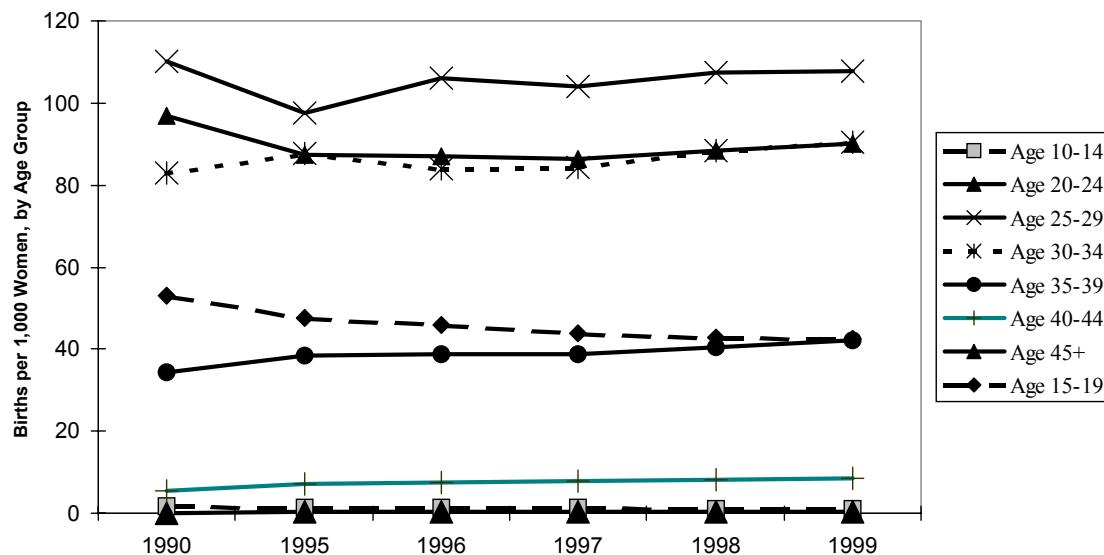
Source: Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports

Note: Rates based on population in that age group; the <15 category uses the 10-15 population, and the 45+ category uses the 45-49 population

The trend in declining birth rates in the 1990s is seen only in the younger age categories. Birth rates among teenagers has shown a downward trend, while birth rates among women in their 30s and 40s has been increasing. While the general fertility rate has declined between 1990 and 1999, this decline is seen only in the younger age categories, as shown in Table 7 (a) – (h). The rate of births to Maryland teenagers has declined 21.8% since 1990, from 53.2 in 1990 to 41.6 in 2000 (CDC). The highest teenage birth rate is in Baltimore City where the rate was 95.6 in 1999 (VS), more than double the state average of 42.5. Montgomery County's rate of 22.4 in

1999 is consistently the lowest, at almost half the state average. Trends in the rate of births to teenagers age 15 to 19 has also declined nationally, to a record low rate of 48.5 births per 1,000 women in 2000 – a 22% decrease since 1991.

**Figure 8. Trends in Birth Rates by Age of Mother:
Maryland, 1990 - 1999**



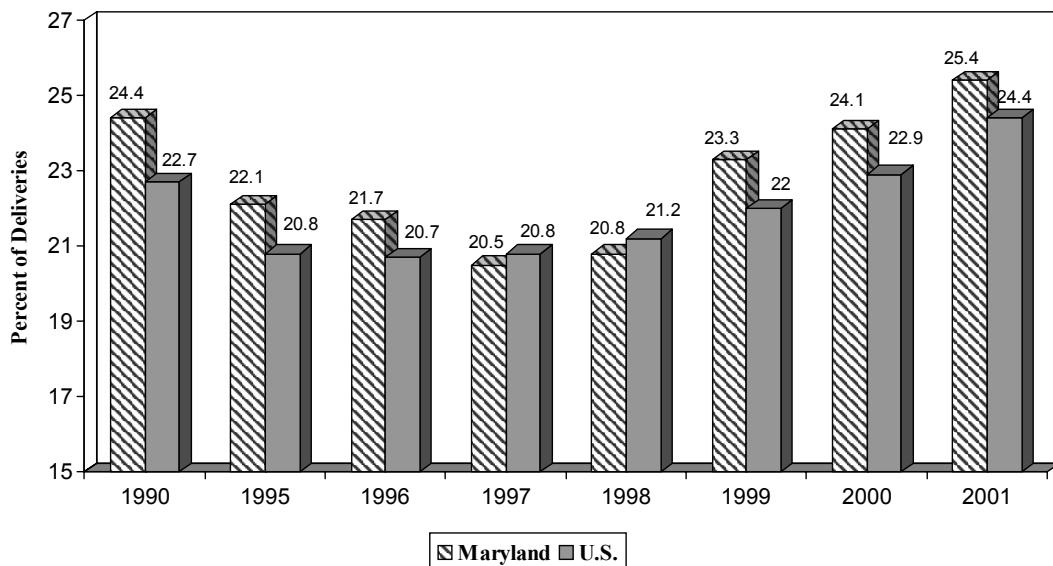
Source: Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports

A similar pattern is seen for the youngest teenagers, those under 15 years old, where the birth rate has declined by 47% between 1990 and 1999. The birth rate for Maryland women in their 20s declined in the early 1990s, although more slowly, and has increased in the late 90s. Birth rates to women in their 30s and 40s, however, are increasing. The birth rates for women between 30 and 34 have increased 9%, and for women between 35 and 39 have increased 22%, and 55% for women between 40 and 44 between 1990 and 1999. Maryland Vital Statistics reports the ratio of multiple births per 1,000 total births has been increasing through the 1990s, from 24.4 in 1990 to 34.0 in 1999, which is slightly higher than the national average of 31.1 per 1,000 in 2000.

Cesarean Section Births

The trend of declining Cesarean section deliveries, as a percentage of all deliveries, seen in the early and mid 1990s, appears to have changed. As shown in Figure 9, Cesarean section deliveries to Maryland residents declined through most of the 1990s to 20.5% of all deliveries in 1997. The percentage rose slightly in 1998 to 20.8%, to 23.3% in 1999, to 24.1% in 2000 and to 25.4% in 2001. This represents an almost 24% increase in the four years since 1997. Nationally, Cesarean section deliveries are also increasing, rising to 24.4% of all deliveries in 2001, a 17% increase over 1997. This four year increasing trend follows steady declines in C-section rates through 1996.

**Figure 9. Trends in Percentage of Cesarean Section Deliveries:
Maryland and U.S., 1990 – 2001**



Source: Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports

Table 8 in Section IV shows the trends in Cesarean section deliveries as a percentage of total birth discharges based on data from the Maryland Hospital Discharge Abstract. This data shows Cesarean section delivery rates by jurisdiction and by region for 1980 through 2001. In 1980, only 19.9% of birth discharges in Maryland were by C-section. Rates have risen to a level higher than in 1990, and are well above 1995 rates in almost all regions and jurisdictions.

Healthy People 2010 is a set of established national health objectives developed by the Department of Health and Human Services, states and other public and private organizations for use by individuals and organizations to guide health promotion activities. Healthy People 2010 covers 28 focus areas, including maternal, infant and child health. One of the objectives for improving health calls for reductions in cesarean births among low risk women. The target for women giving birth for the first time calls for a 17 percent reduction from the 1998 national baseline rate of 18% of live births, to 15% by 2010. The target for women who have had a prior cesarean birth calls for a 12.5% reduction, from 72% of births in 1998 to 63% by 2010.

Selected Health Status Indicators

Prenatal Care

Appropriate prenatal care can promote healthier pregnancies and reduce the risk of poor pregnancy outcomes. In Maryland, the percentage of births to women receiving late⁴ or no prenatal care in 2000 was 3.2%. As shown in Figure 10, the early 1990s saw a decline in this

⁴ Care beginning in the third trimester

measure from a high of 4.0% in 1988 to a low of 2.6% in 1996 and 1997. However, the three year rise from 1997 to 2000 represents an increase in the percent of births to women receiving inadequate prenatal care of 19%. The Maryland Vital Statistics Annual Report, 1999, shows rates of prenatal care by jurisdiction and region, indicating that Baltimore City and the lower Eastern Shore have the highest percent of late or no prenatal care, and Howard and Carroll counties have the lowest.

Maryland consistently outperforms the national average in this measure, although the national average has declined from 4.1% in 1996 to 3.9% in 2000 while Maryland has increased from 2.6% to 3.2% in the same four years.

Timely prenatal care varies considerably by race, as shown below in Figure 11. Nationally, 3.3% of mothers whose race is white received late or no prenatal care in 2000, 6.7% for mothers whose race is black. In Maryland, of the 3.1% of mothers receiving late or no prenatal care in 2000, this occurred with 1.8% of mothers whose race is white, and 5.7% of mothers whose race is black.

Healthy People 2010's objectives call for an increase in the proportion of women who receive early and adequate prenatal care. Prenatal care should start in the first trimester and continue throughout pregnancy. Prenatal care includes three major components: risk assessment, treatment for medical conditions or risk reduction, and education.

Low Birth Weight

The percent of low birth weight (LBW) infants (under 2,500 grams) in Maryland declined in 2000 after an increasing trend in the 1990s, as shown in Figure 10. In 2000, 8.7% of infants were LBW compared with 9.1% in 1999, but still higher than the rates of the early and mid 1990s. The percent of LBW infants is highest in Baltimore City and the lower Eastern Shore, as shown in the Maryland Vital Statistics Annual Report, 1999.

LBW is more prevalent when the mother's age is in the lowest or highest age range (i.e., under 18 and over 40), and twice as prevalent when the mother's race is black than when the mother's race is white.(VS) As shown in Figure 11, in Maryland in 2000, 6.4 percent of white infants were LBW, compared to 13 percent of black infants.

Although Maryland's percentage of low birth weight infants is higher than the national average of 7.6% in 2000,⁵ the percentages are similar by race. The percent of LBW infants has risen nationally from 6.8% in 1986.

Another Healthy People objective calls for reductions in low birth weight (1,500 - 2,500 grams) from 7.6% of births in 1998 to 5% by 2010. It also calls for a decrease in very low birth weight (under 1,500 grams) from 1.4% of births to 0.9% by 2010.

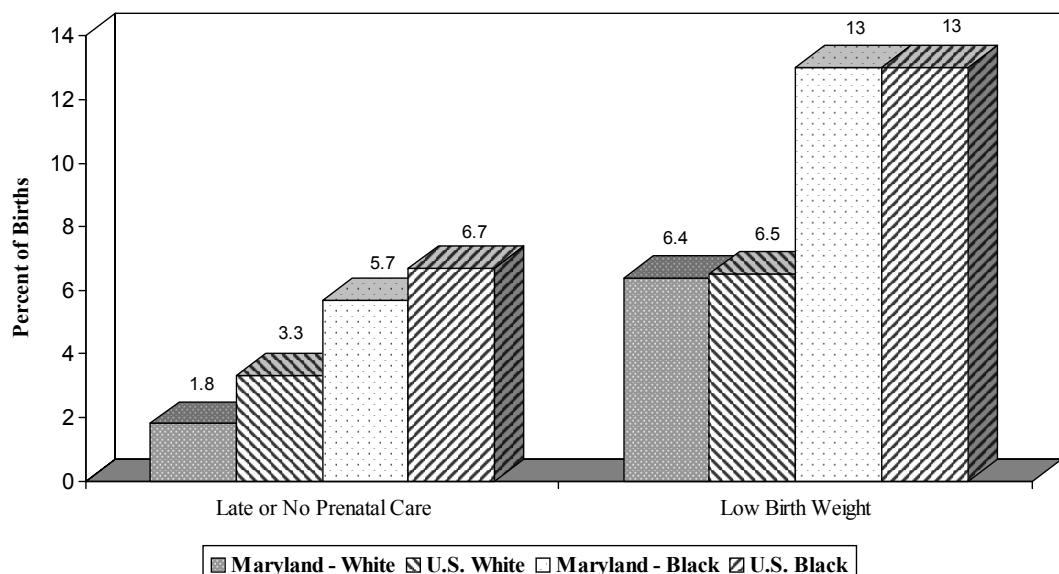
⁵ Infant mortality rates are also higher in Maryland than nationally, although the trend in Maryland has shown a steady decline. The IMR will be addressed in connection with the MHCC's planning efforts regarding neonatal intensive care services.

**Figure 10. Trends in Selected Health Status Indicators, Percentage of Total Births:
Maryland, 1990 - 2000**

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Prenatal Care	3.3	3.5	3.4	3.6	3.4	3.0	2.6	2.6	2.9	3.1	3.2
Low Birth Wt.	7.8	8.1	8.3	8.4	8.8	8.5	8.6	8.8	8.7	9.1	8.7

Source: Maryland Vital Statistics, Annual Reports

**Figure 11. Comparison of Racial Differences in Selected Health Status Indicators:
Maryland and U.S., 2000**



Source: Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports

Utilization and Financing of Hospital Obstetric Services

Discharges

Table 9 shows the trend in Maryland acute general hospital obstetric service discharges by county and by selected jurisdictions from 1980 through 2001. Obstetric service discharges declined through the 1990s, from over 81,100 in 1990 to almost 72,600 in 2001. The number of discharges increased slightly between 1997 and 2000, and decreased again slightly in 2001. Table 10 shows trends in discharges by hospital.

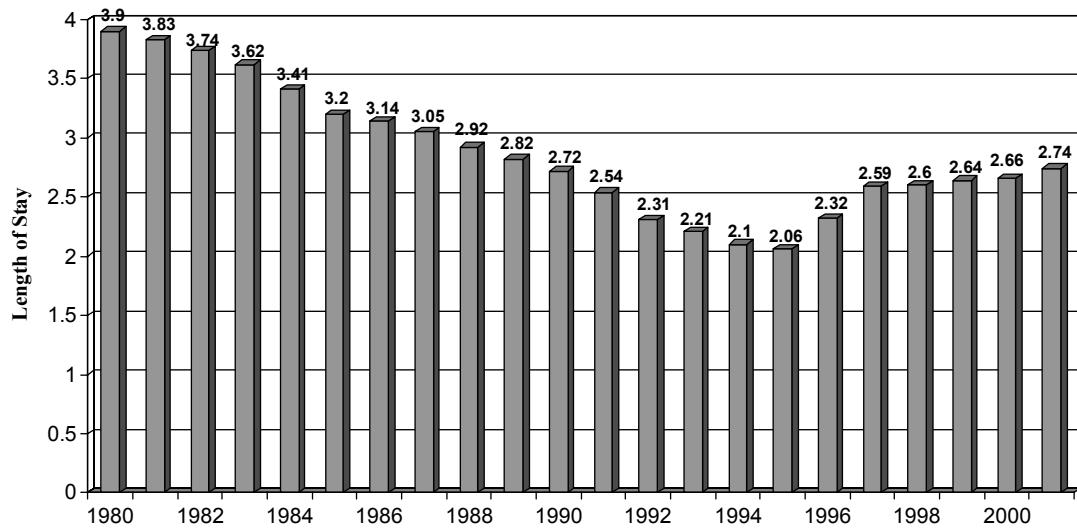
Most obstetric discharges occur in the four largest jurisdictions of Baltimore City and Montgomery, Baltimore and Prince George's counties. In 1990, almost 75% of the obstetric discharges in Maryland occurred in these four jurisdictions, declining to 67.6% of discharges in

2001. While the number of obstetric discharges is relatively the same in 2001 as in 1995, more discharges now occur in the suburban central Maryland counties of Anne Arundel, Carroll and Harford, which each grew about 50% over the six years, and the number of discharges declined in Baltimore and Prince George's counties and Baltimore City.

Average Length of Stay

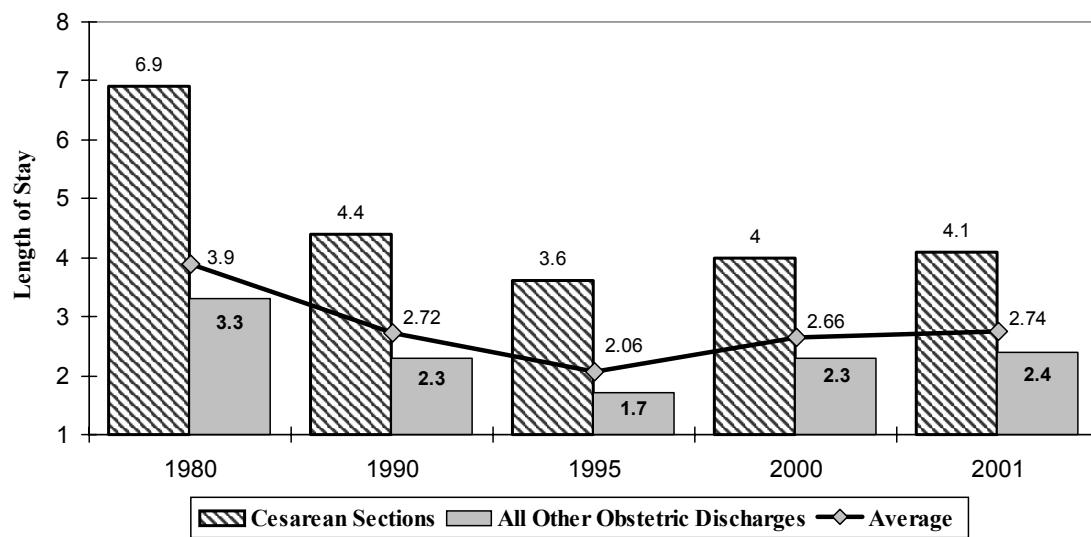
Table 11 shows that average length of stay (ALOS) in Maryland has increased every year since 1995. Average length of stay declined through the 1980s and 1990s to a low of 2.06 days in 1995. In 2001 ALOS reached 2.74 days, near the 2.71 days in 1990. ALOS varies by county and by region, with Western Maryland and more rural counties having the shortest ALOS, and Central Maryland, particularly Baltimore and Baltimore County, having the longest ALOS. Figure 12 shows this 20 year trend in ALOS in Maryland. This trend is similar for Cesarean section deliveries, as shown in Figure 13.

**Figure 12. Trend in Obstetric Average Length of Stay:
Maryland, 1980 - 2001**



Source: Maryland Hospital Discharge Abstract

**Figure 13. Trends in Average Length of Stay by Type of Discharge:
Maryland, Selected Years, 1980 - 2001**

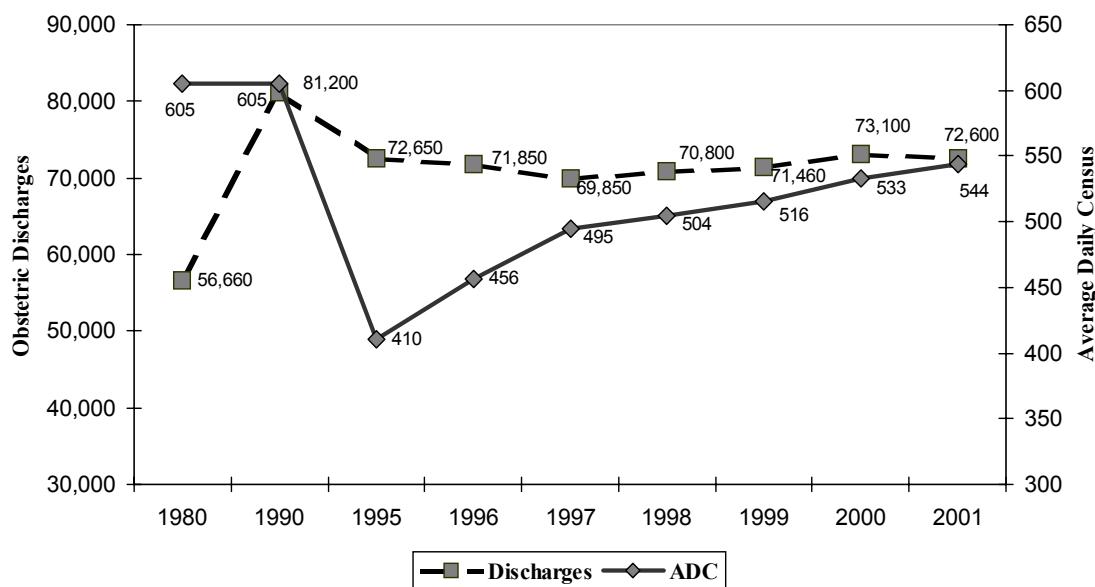


Source: Maryland Hospital Discharge Abstract

Average Daily Census

Trends in average daily census (ADC), the daily expression of patient days, are shown in Tables 13 and 14. With both discharges and ALOS declining, 1995 saw the lowest average daily census in Maryland in at least 20 years. As ALOS began to increase after 1995, ADC began to rise even while discharges continued to decline. With the increase in discharges beginning in 1998, and increasing ALOS, ADC has increased 10% since 1997, compare to a 4% increase in discharges in the same four years. Some areas have actually experienced declines in ADC in some years since 1997, such as Baltimore and Prince George's counties and Western Maryland. A comparison of the trends in discharges and ADC is shown below in Figure 14.

**Figure 14. Trends in Obstetric Discharges and Average Daily Census:
Maryland, 1980 - 2001**

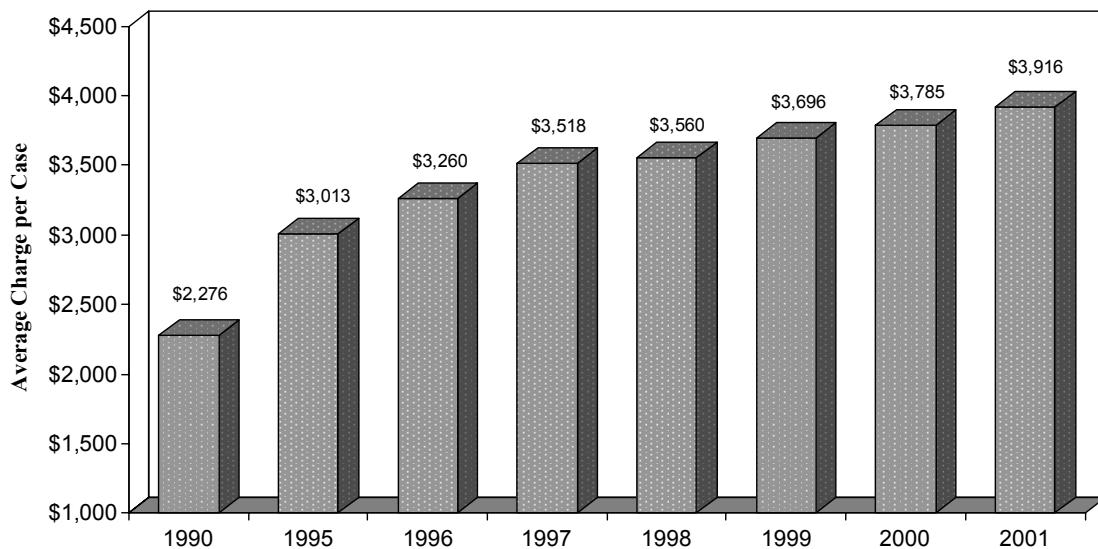


Source: Maryland Hospital Discharge Abstract

Average Charge per Case

The average charge per case for obstetric admissions in Maryland, by county and by selected jurisdictions, is shown in Table 15. In CY 2001 the average charge was \$3,916. This is a 3.5% increase over the CY 2000 average charge per case of \$3,785, and a 30% increase since 1995. The highest average charge per case is in Baltimore City and Prince George's County, and the lowest is found in Western Maryland (with the exception of Allegany County) and Southern Maryland.

**Figure 15. Trend in Average Charge per Case:
Maryland, 1980 - 2001**



Source: Maryland Hospital Discharge Abstract

Note: Figures are not inflation-adjusted.

Hospital specific charge per case is shown in Table 16. Hospital charges ranged from \$2,757 at Washington County Hospital in Hagerstown to \$6,246 at Maryland General Hospital in Baltimore.⁶

Payer Source

Table 17 shows the trends in payer source in Maryland from 1980 through 2001. This table indicates that there are very few obstetric discharges without insurance coverage of some kind. Medicaid covers over one third of all obstetric discharges in Maryland hospitals, up from just one quarter in the 1990s. The number of Medicaid discharges has increased steadily since 1997. The number of discharges covered by Blue Cross and Commercial plans has also increased which, in combination, accounted for almost 33 percent of obstetric discharges. The number of obstetric discharges covered by health maintenance organizations (HMOs) has declined notably over the last four years, from 41% to 31% of obstetric discharges. In 1998 HMOs clearly accounted for the largest share of obstetric discharges. In 2001, however, both Medicaid and Commercial/Blue Cross payers combined had a greater share of the market. Table 18 shows the current payer mix by hospital in 2001.

⁶ Among hospitals with obstetric services.

III. 2006 Utilization Forecast: Maryland Hospital Obstetric Services

Description of Methodology

The methodology used to forecast hospital obstetric services discharges and average daily census is based on the methodology originally adopted by the Maryland Health Resources Planning Commission in the State Health Plan chapter, COMAR 10.24.10. This methodology, based on birth projections, Vital Statistics data, and assumptions about possible changes in average length of stay, is intended for use by hospitals when planning for obstetric services, and by state agencies interested in projected obstetric services utilization.

The Maryland Department of Planning makes projections annually of the number of births to Maryland residents for use in their public school projection report. Migration patterns based on data from Maryland Vital Statistics are then applied to the projections of births by jurisdiction of residence to get a number of births by jurisdiction of birth. Then, based on data from the Maryland Hospital Discharge Abstract, the proportion of hospital discharges in the non-birth DRGs (see Figure 1) is used to convert the number of expected births to a number of projected discharges. Finally, making assumptions about obstetric services average length of stay by jurisdiction based on historical trends, an estimate of total patient days and average daily census can be made.

Obstetric Discharges: 2006

The forecast of future obstetric discharges based on MDP's birth projections, indicates that discharges are projected to decline by 2006. Forecasting average daily census is a then function of the assumptions about future trends in average length of stay. The ALOS assumptions shown in Figure 16 suggest a range of expected length of stay based on a review of the recent trends in ALOS. Length of stay is not likely to continue to increase significantly, as it has now reached a level greater than before it began to decline sharply in the mid 1990s. By projecting a range within which ALOS is expected to fall by 2006, the uncertain timing of any easing of the recent volatile nature of ALOS can be taken into account.

Figure 16. Target Year Expected Average Length of Stay

Base Year ALOS		Target Year Expected ALOS		
Non C-Sections*	Cesarean Sections		Non C-Sections	Cesarean Sections
2.29	4.04	Minimum	2.15	3.95
		Maximum	2.35	4.15

* All Other Obstetric Discharges, includes DRGs 372-379 and 382-384

Table 19 below presents the forecasted discharges and ADC by jurisdiction, and a comparison of the forecast with actual discharges and ADC in the base year, 2000. A complete description of the methodology used to reach the 2006 forecast can be found in the Appendix.

**Table 19a. Results of Utilization Forecast Methodology for Target Year 2006,
and Comparison With Base Year 2000: Discharges and Average Daily Census**

Jurisdiction of Utilization	Discharges		Average Daily Census		
	Base Year (2000)	Target Year (2006)	Base Year	Target Year Minimum	Target Year Maximum
Allegany County	1,144	1,297	6.9	7.4	8.0
Anne Arundel County	4,564	3,768	31.4	24.7	26.6
Baltimore City	17,084	16,008	137.9	123.0	132.8
Baltimore County	10,816	10,173	83.7	75.1	80.9
Calvert County	883	882	5.4	5.1	5.5
Carroll County	1,349	1,457	8.7	9.0	9.7
Cecil County	746	774	4.0	4.0	4.3
Charles County	1,107	990	7.0	5.9	6.4
Dorchester County	17	-			
Frederick County	2,221	2,153	15.1	13.9	15.1
Garrett County	309	374	1.6	1.8	2.0
Harford County	769	595	4.0	2.9	3.1
Howard County	3,318	2,964	23.8	20.3	21.9
Kent County	268	245	1.9	1.6	1.8
Montgomery County	16,300	17,727	120.9	125.3	135.1
Prince George's County	6,014	5,952	42.7	40.3	43.4
Somerset County	1	-			
St. Mary's County	858	944	5.0	5.2	5.6
Talbot County	1,148	1,037	7.3	6.2	6.7
Washington County	1,816	2,094	9.9	10.9	11.8
Wicomico County	2,345	2,536	16.1	16.6	17.9
Worcester County	2	-			
MARYLAND TOTAL	73,079	71,972	533.2	499.1	538.5

**Table 19b. Results of Utilization Forecast Methodology for Target Year 2006,
and Comparison With Base Year 2000: Discharges and Average Daily Census**

Region/ Selected Jurisdiction	Discharges		Average Daily Census		
	Base Year (2000)	Target Year (2006)	Base Year	Target Year	
			ADC	Minimum	Maximum
Western Maryland	5,490	5,918	33.5	34.1	36.8
Montgomery County	16,300	17,727	120.9	125.3	135.1
Southern Maryland	8,862	8,768	60.0	56.5	60.9
Central Maryland Total	37,900	34,965	289.5	255.0	275.0
Eastern Shore	4,527	4,593	29.4	28.4	30.7
MARYLAND TOTAL	73,079	71,972	533.2	499.1	538.5
Baltimore City	17,084	16,008	137.9	123.0	132.8
Baltimore County	10,816	10,173	83.7	75.1	80.9
Montgomery County	16,300	17,727	120.9	125.3	135.1
Prince George's County	6,014	5,952	42.7	40.3	43.4

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

IV. Detailed Statistical Tables

Table 1. Obstetric Services Inventory and System Affiliation: Maryland, 1990 and 2002

Jurisdictions	Hospital Name	Licensed OB Beds		Current Local Hospital-System Affiliation
		1990	2002	
Allegany	Frostburg Community Hospital (See Note 1)	0	--	Western Md Hlth System
	Memorial of Cumberland Hosp	9	10	Western Md Hlth System
	Sacred Heart Hospital (See Note 2)	10	0	Western Md Hlth System
Frederick	Frederick Memorial Hospital	21	23	
	Garrett County Memorial Hospital	4	4	
	Washington County Hospital	18	14	
WESTERN MARYLAND TOTAL		62	71	
Montgomery	Holy Cross Hospital	44	82	
	Montgomery General Hospital	18	14	
	Shady Grove Adventist Hospital	43	59	Adventist Hlth Care
	Suburban Hospital	0	0	
	Washington Adventist Hospital	31	33	Adventist Hlth Care
MONTGOMERY COUNTY TOTAL		136	188	
Calvert Charles Prince George's	Calvert Memorial Hospital	8	9	
	Physicians Memorial/Civista Medical Center	10	15	
	Doctors Community Hospital	0	0	
	Greater Laurel Beltsville/Laurel Regional (See Note 3)	14	10	Dimensions Hlth System
	Leland Memorial Hospital (See Note 4)	0	--	Adventist Healthcare
	Parkwood/Fort Washington	0	0	
	Prince George's Hospital Center	42	40	Dimensions Hlth System
	Southern Maryland Hospital Center	30	18	
	St. Mary's Hospital	13	13	
SOUTHERN MARYLAND TOTAL		117	105	
Anne Arundel Baltimore City Baltimore Co. Carroll Harford Howard	Anne Arundel Medical Center	32	46	
	North Arundel Hospital	0	0	
	Bon Secours Hospital	0	0	
	Children's Hospital (See Note 5)	0	--	
	Church Hospital (See Note 6)	0	--	
	Good Samaritan Hospital	0	0	
	Harbor Hospital	38	30	
	Homewood North and South (See Note 7)	0	--	
	Francis Scott Key/Johns Hopkins Bayview M. C.	16	16	Johns Hopkins Hlth System
	Johns Hopkins Hospital	40	39	Johns Hopkins Hlth System
	James Lawrence Kernan Hospital	0	0	Johns Hopkins Hlth System
	Liberty/Liberty Heights (See Note 8)	0	--	Univ of Md Med System
	Maryland General Hospital	20	20	Univ of Md Med System
	Mercy Medical Center	18	30	MedStar Health
	Sinai Hospital of Baltimore	31	23	MedStar Health
	St. Agnes Hospital	34	30	MedStar Health
	Union Memorial Hospital	37	13	MedStar Health
	University of Maryland Medical Center	32	32	Univ of Md Med System
	Franklin Square Hospital	39	37	Univ of Md Med System
	Greater Baltimore Medical Center	46	60	MedStar Health
	Baltimore County General/Northwest Hospital	0	0	
	St. Joseph Hospital	38	28	
	Carroll Co. General Hospital	12	20	
	Fallston General/Upper Chesapeake Medical Cntr	0	9	Upper Chesapeake Hlth Sys
	Harford Memorial Hospital	30	0	Upper Chesapeake Hlth Sys
	Howard County General Hospital	25	32	Johns Hopkins Hlth System
CENTRAL MARYLAND TOTAL		476	445	
Cecil Dorchester Kent Somerset Talbot Wicomico Worcester	Union Hospital of Cecil	11	11	
	Dorchester General Hospital (See Note 9)	7	0	Shore Health System
	Kent & Queen Anne's Hospital	4	4	
	Edward W. McCready Hospital	0	0	
	Memorial Hospital at Easton	22	25	Shore Health System
	Peninsula Regional Medical Center	19	24	
	Atlantic General Hospital (See Note 10)	--	0	
EASTERN SHORE TOTAL		63	64	
MD TOTAL	34 Obstetric Programs	866	873	16 Obstetric Programs

Sources: The 1990 bed inventory is from the *Acute Care Bed Inventory, December 1990*, report of the Maryland Health Resources Planning Commission, and records of the Office of Health Care Quality. The 2002 inventory is from the Maryland Health Care Commission.

Notes: (1) Frostburg Community Hospital closed in 1995 following acquisition by Sacred Heart Hospital. (2) Sacred Heart's obstetric service was consolidated at Memorial Hospital in January 2000. (3) Laurel Hospital's obstetric service was initiated in 1987 following the transfer of beds from Prince George's Hospital. (4) Leland Memorial Hospital closed in 1993. (5) Children's Hospital closed in 1999 following acquisition by LifeBridge Health. (6) Church Hospital closed in 1999 following acquisition in 1995 by Helix Health, now MedStar. (7) North Charles and Wyman Park hospitals merged with the Johns Hopkins Health System as Homewood North and South campuses, and closed in 1991. (8) Liberty Medical Center closed in 1999. LMC was the result of the merger of Provident and Lutheran hospitals in 1986. (9) Dorchester's obstetric service was consolidated at Memorial Hospital at Easton in 1997 following the 1996 merger. (10) Atlantic General Hospital opened in 1995.

**Table 2a. Population Estimates and Projections for Females, 15-44 Years of Age,
by Jurisdiction of Residence: Maryland, 1990 - 2020**

Jurisdiction	1990	1995	2000	2005	2010	2015	2020
Allegany County	14,998	14,043	13,590	12,937	12,115	11,652	11,499
Anne Arundel County	102,331	102,468	105,685	105,166	99,311	97,666	97,892
Baltimore County	163,021	157,998	160,839	156,297	150,964	148,039	147,890
Baltimore City	178,971	163,241	146,127	141,079	136,613	133,467	132,930
Calvert County	12,630	14,982	16,420	16,883	17,080	17,051	17,620
Caroline County	5,941	6,112	6,129	6,129	6,117	6,066	6,208
Carroll County	29,096	30,852	31,150	31,910	31,475	32,622	33,969
Cecil County	16,700	17,445	18,682	18,952	19,026	19,117	19,415
Charles County	25,773	26,724	28,149	30,236	31,450	33,790	37,069
Dorchester County	6,466	6,161	5,923	5,726	5,548	5,337	5,289
Frederick County	36,453	40,573	42,708	45,769	47,642	50,236	54,236
Garrett County	6,208	6,208	5,904	5,748	5,557	5,509	5,451
Harford County	44,257	47,569	47,508	47,530	46,206	46,515	47,051
Howard County	49,935	52,820	56,532	55,096	54,147	54,407	53,981
Kent County	3,480	3,398	3,338	3,205	3,039	2,939	2,939
Montgomery County	192,541	188,173	193,286	195,878	192,844	191,793	192,436
Prince George's County	197,322	191,423	191,921	191,515	188,348	186,758	188,364
Queen Anne's County	7,575	7,888	8,080	8,313	8,355	8,702	9,124
St. Mary's County	18,221	18,433	18,812	19,543	19,914	20,453	21,642
Somerset County	4,188	4,028	4,014	3,759	3,607	3,575	3,592
Talbot County	6,203	6,137	5,907	5,780	5,607	5,587	5,658
Washington County	25,906	25,508	25,728	25,239	24,335	24,151	24,328
Wicomico County	16,960	17,143	18,238	18,200	18,231	18,817	19,685
Worcester County	7,350	7,777	8,378	8,270	8,135	7,943	8,080
STATE TOTAL	1,172,511	1,157,090	1,163,048	1,159,160	1,135,666	1,132,192	1,146,348

**Table 2b. Population Estimates and Projections for Females, 15-44 Years of Age, by Region
and Selected Jurisdiction: Maryland, Selected Years, 1990 - 2020**

Region/ Selected Jurisdiction	1990	1995	2000	2005	2010	2015	2020
Western Maryland	83,565	86,332	87,930	89,693	89,649	91,548	95,514
Montgomery County	192,541	188,173	193,286	195,878	192,844	191,793	192,436
Southern Maryland	253,946	251,562	255,302	258,177	256,792	258,052	264,695
Central Maryland	567,611	554,948	547,841	537,078	518,716	512,716	513,713
Eastern Shore	74,863	76,089	78,689	78,334	77,665	78,083	79,990
State Total	1,172,511	1,157,090	1,163,048	1,159,160	1,135,666	1,132,192	1,146,348
Baltimore City	178,971	163,241	146,127	141,079	136,613	133,467	132,930
Baltimore County	163,021	157,998	160,839	156,297	150,964	148,039	147,890
Montgomery County	192,541	188,173	193,286	195,878	192,844	191,793	192,436
Prince George's County	197,322	191,423	191,921	191,515	188,348	186,758	188,364

Notes: Figures for 1990 through 1999 are subject to intercensal estimations when available.

Western Maryland: Allegany, Garrett, Frederick and Washington counties. Southern Maryland: Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland: Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Department of Planning, prepared by the Maryland Health Care Commission

**Table 3a. Percent Change in Female Population, 15-44 Years of Age,
by Jurisdiction of Residence: Maryland, 1990 - 2020**

Jurisdiction	1995	2000	2005	2010	2015	2020
Allegany County	-6.4%	-3.2%	-4.8%	-6.4%	-3.8%	-1.3%
Anne Arundel County	0.1%	3.1%	-0.5%	-5.6%	-1.7%	0.2%
Baltimore County	-3.1%	1.8%	-2.8%	-3.4%	-1.9%	-0.1%
Baltimore City	-8.8%	-10.5%	-3.5%	-3.2%	-2.3%	-0.4%
Calvert County	18.6%	9.6%	2.8%	1.2%	-0.2%	3.3%
Caroline County	2.9%	0.3%	0.0%	-0.2%	-0.8%	2.3%
Carroll County	6.0%	1.0%	2.4%	-1.4%	3.6%	4.1%
Cecil County	4.5%	7.1%	1.4%	0.4%	0.5%	1.6%
Charles County	3.7%	5.3%	7.4%	4.0%	7.4%	9.7%
Dorchester County	-4.7%	-3.9%	-3.3%	-3.1%	-3.8%	-0.9%
Frederick County	11.3%	5.3%	7.2%	4.1%	5.4%	8.0%
Garrett County	0.0%	-4.9%	-2.6%	-3.3%	-0.9%	-1.1%
Harford County	7.5%	-0.1%	0.0%	-2.8%	0.7%	1.2%
Howard County	5.8%	7.0%	-2.5%	-1.7%	0.5%	-0.8%
Kent County	-2.4%	-1.8%	-4.0%	-5.2%	-3.3%	0.0%
Montgomery County	-2.3%	2.7%	1.3%	-1.5%	-0.5%	0.3%
Prince George's County	-3.0%	0.3%	-0.2%	-1.7%	-0.8%	0.9%
Queen Anne's County	4.1%	2.4%	2.9%	0.5%	4.2%	4.8%
St. Mary's County	1.2%	2.1%	3.9%	1.9%	2.7%	5.8%
Somerset County	-3.8%	-0.3%	-6.4%	-4.0%	-0.9%	0.5%
Talbot County	-1.1%	-3.7%	-2.1%	-3.0%	-0.4%	1.3%
Washington County	-1.5%	0.9%	-1.9%	-3.6%	-0.8%	0.7%
Wicomico County	1.1%	6.4%	-0.2%	0.2%	3.2%	4.6%
Worcester County	5.8%	7.7%	-1.3%	-1.6%	-2.4%	1.7%
State Total	-1.3%	0.5%	-0.3%	-2.0%	-0.3%	1.3%

**Table 3b. Percent Change in Female Population, 15-44 Years of Age,
by Region and Selected Jurisdiction: Maryland, 1990 - 2020**

Region/ Selected Jurisdiction	1995	2000	2005	2010	2015	2020
Western Maryland	3.3%	1.9%	2.0%	0.0%	2.1%	4.3%
Montgomery County	-2.3%	2.7%	1.3%	-1.5%	-0.5%	0.3%
Southern Maryland	-0.9%	1.5%	1.1%	-0.5%	0.5%	2.6%
Central Maryland	-2.2%	-1.3%	-2.0%	-3.4%	-1.2%	0.2%
Eastern Shore	1.6%	3.4%	-0.5%	-0.9%	0.5%	2.4%
State Total	-1.3%	0.5%	-0.3%	-2.0%	-0.3%	1.3%
Baltimore City	-8.8%	-10.5%	-3.5%	-3.2%	-2.3%	-0.4%
Baltimore County	-3.1%	1.8%	-2.8%	-3.4%	-1.9%	-0.1%
Montgomery County	-2.3%	2.7%	1.3%	-1.5%	-0.5%	0.3%
Prince George's County	-3.0%	0.3%	-0.2%	-1.7%	-0.8%	0.9%

Notes: Figures for 1990 through 1999 are subject to intercensal estimations when available.

Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Source: Maryland Department of Planning, prepared by the Maryland Health Care Commission

Table 4a. Trends in Maryland Births by Jurisdiction of Residence: Maryland, 1990 - 2000

Jurisdiction	Actual Births										
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Allegany County	904	893	887	869	793	776	784	761	753	728	794
Anne Arundel County	6,778	6,612	6,746	6,203	6,531	6,598	6,419	6,465	6,602	6,660	6,790
Baltimore City	14,354	13,815	12,983	12,264	11,192	9,997	9,751	9,262	9,624	9,734	9,641
Baltimore County	10,213	10,009	9,658	9,261	9,164	9,417	9,124	8,899	9,080	9,003	9,396
Calvert County	862	852	877	901	858	900	917	914	939	956	1,024
Caroline County	424	425	415	366	386	358	382	363	336	363	407
Carroll County	1,968	1,963	1,833	1,787	1,857	1,812	1,913	1,827	1,922	1,828	1,897
Cecil County	1,184	1,187	1,194	1,097	1,068	1,101	1,073	1,090	1,092	1,168	1,138
Charles County	1,739	1,739	1,638	1,638	1,674	1,597	1,649	1,636	1,689	1,675	1,746
Dorchester County	477	414	422	363	345	301	315	389	298	314	328
Frederick County	2,559	2,463	2,577	2,536	2,665	2,648	2,660	2,626	2,730	2,595	2,906
Garrett County	430	417	394	416	389	361	366	349	358	355	333
Harford County	2,958	2,965	2,957	2,911	3,011	2,950	2,963	2,855	3,082	2,925	2,954
Howard County	3,119	3,233	3,251	3,359	3,411	3,487	3,433	3,358	3,362	3,372	3,563
Kent County	233	264	221	200	224	189	187	202	181	211	203
Montgomery County	12,773	12,466	12,434	12,194	12,117	12,185	11,848	11,813	12,251	12,369	13,055
Prince George's County	13,401	13,566	13,434	13,058	12,755	12,350	12,348	11,972	12,138	11,900	12,423
Queen Anne's County	488	442	475	434	418	421	470	429	477	477	500
Somerset County	272	267	279	257	285	263	240	249	248	253	273
St. Mary's County	1,352	1,320	1,372	1,241	1,280	1,231	1,164	1,207	1,218	1,303	1,215
Talbot County	415	382	373	364	357	378	345	320	322	332	369
Washington County	1,660	1,737	1,630	1,564	1,538	1,525	1,559	1,589	1,577	1,646	1,601
Wicomico County	1,162	1,175	1,174	1,155	1,128	1,021	1,084	1,095	1,037	1,126	1,174
Worcester County	474	537	504	496	491	446	479	481	486	529	496
TOTALS	80,199	79,143	77,728	74,934	73,937	72,312	71,473	70,151	71,802	71,822	74,226

Table 4b. Trends in Maryland Resident Births by Region and Selected Jurisdiction: Maryland, 1990 - 2000

Region/ Selected Jurisdiction	Actual Births										
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Western Maryland	5,553	5,510	5,488	5,385	5,385	5,310	5,369	5,325	5,418	5,324	5,634
Montgomery County	12,773	12,466	12,434	12,194	12,117	12,185	11,848	11,813	12,251	12,369	13,055
Southern Maryland	17,354	17,477	17,321	16,838	16,567	16,078	16,078	15,729	15,984	15,834	16,408
Central Maryland	39,390	38,597	37,428	35,785	35,166	34,261	33,603	32,666	33,672	33,522	34,241
Eastern Shore	5,129	5,093	5,057	4,732	4,702	4,478	4,575	4,618	4,477	4,773	4,888
State Total	80,199	79,143	77,728	74,934	73,937	72,312	71,473	70,151	71,802	71,822	74,226
Baltimore City	14,354	13,815	12,983	12,264	11,192	9,997	9,751	9,262	9,624	9,734	9,641
Baltimore County	10,213	10,009	9,658	9,261	9,164	9,417	9,124	8,899	9,080	9,003	9,396
Montgomery County	12,773	12,466	12,434	12,194	12,117	12,185	11,848	11,813	12,251	12,369	13,055
Prince George's County	13,401	13,566	13,434	13,058	12,755	12,350	12,348	11,972	12,138	11,900	12,423

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Department of Planning

Table 5a. Trends in Projected Births, by Jurisdiction of Residence: Maryland, 2001 - 2030

Jurisdiction	Projected Births						Long Range Projection Estimates				
	2001	2002	2003	2004	2005	2006	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
Allegany County	710	700	700	700	700	700	693	679	654	634	619
Anne Arundel County	6,830	6,550	6,400	6,250	6,175	6,150	6,444	6,524	6,689	6,642	6,543
Baltimore City	9,050	9,000	9,000	9,000	9,000	9,000	9,326	9,428	9,225	9,242	9,298
Baltimore County	9,110	8,800	8,600	8,600	8,600	8,600	8,694	8,759	8,688	8,436	8,241
Calvert County	940	960	980	980	980	980	1,081	1,165	1,199	1,139	1,088
Caroline County	370	350	350	350	375	375	392	411	404	391	391
Carroll County	1,920	1,920	1,920	1,920	1,920	1,920	2,048	2,223	2,382	2,312	2,181
Cecil County	1,140	1,125	1,125	1,125	1,150	1,150	1,203	1,273	1,292	1,271	1,266
Charles County	1,800	1,750	1,750	1,750	1,750	1,750	1,975	2,219	2,445	2,467	2,480
Dorchester County	390	340	340	340	340	340	361	349	328	314	317
Frederick County	2,900	2,900	2,750	2,700	2,700	2,700	3,041	3,360	3,660	3,733	3,803
Garrett County	320	320	320	320	330	330	330	335	330	320	314
Harford County	2,720	2,700	2,700	2,700	2,700	2,700	2,784	2,933	3,019	2,889	2,724
Howard County	3,500	3,375	3,250	3,200	3,200	3,200	2,980	3,053	3,329	3,252	2,955
Kent County	160	170	170	170	180	180	178	182	175	161	155
Montgomery County	13,200	12,500	12,000	12,000	12,000	12,000	12,209	12,732	13,470	13,513	13,137
Prince George's County	12,500	12,000	11,800	11,800	11,800	11,800	11,904	12,098	12,237	12,153	12,036
Queen Anne's County	440	460	460	460	480	480	508	574	624	614	592
Somerset County	250	230	230	230	230	230	220	217	209	201	192
St. Mary's County	1,230	1,250	1,300	1,300	1,325	1,325	1,391	1,470	1,519	1,518	1,543
Talbot County	310	310	310	310	320	320	327	348	361	350	333
Washington County	1,620	1,550	1,520	1,520	1,520	1,520	1,551	1,572	1,588	1,568	1,553
Wicomico County	1,160	1,150	1,150	1,150	1,170	1,170	1,171	1,209	1,236	1,258	1,280
Worcester County	550	500	500	500	500	500	515	529	527	513	510
TOTALS	73,120	70,910	69,625	69,375	69,445	69,420	71,325	73,640	75,591	74,892	73,550

Table 5b. Trends in Projected Maryland Births by Region and Selected Jurisdiction: Maryland 2001 - 2030

Region/ Selected Jurisdiction	Projected Births						Long Range Projection Estimates				
	2001	2002	2003	2004	2005	2006	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
Western Maryland	5,550	5,470	5,290	5,240	5,250	5,250	5,615	5,945	6,232	6,255	6,289
Montgomery County	13,200	12,500	12,000	12,000	12,000	12,000	12,209	12,732	13,470	13,513	13,137
Southern Maryland	16,470	15,960	15,830	15,830	15,855	15,855	16,351	16,952	17,400	17,278	17,147
Central Maryland	33,130	32,345	31,870	31,670	31,595	31,570	32,276	32,919	33,332	32,773	31,942
Eastern Shore	4,770	4,635	4,635	4,635	4,745	4,745	4,875	5,091	5,156	5,073	5,035
State Total	73,120	70,910	69,625	69,375	69,445	69,420	71,325	73,640	75,591	74,892	73,550
Baltimore City	9,050	9,000	9,000	9,000	9,000	9,000	9,326	9,428	9,225	9,242	9,298
Baltimore County	9,110	8,800	8,600	8,600	8,600	8,600	8,694	8,759	8,688	8,436	8,241
Montgomery County	13,200	12,500	12,000	12,000	12,000	12,000	12,209	12,732	13,470	13,513	13,137
Prince George's County	12,500	12,000	11,800	11,800	11,800	11,800	11,904	12,098	12,237	12,153	12,036

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Department of Planning

Table 6a. Trend in Fertility Rates by Jurisdiction of Residence: Maryland, 1990-1999

Jurisdiction	1990	1995	1996	1997	1998	1999
Allegany County	56.9	53.6	55.8	54.0	54.1	53.1
Anne Arundel County	64.7	61.1	60.0	60.1	61.5	62.2
Baltimore City	78.5	61.0	61.6	60.0	63.0	66.0
Baltimore County	61.3	58.7	57.7	56.3	56.8	56.9
Calvert County	67.7	58.9	59.1	56.8	57.0	57.4
Caroline County	70.4	57.0	60.8	55.7	54.6	59.5
Carroll County	65.8	55.7	58.0	54.4	57.4	54.4
Cecil County	69.7	62.2	60.3	60.8	60.2	63.7
Charles County	66.8	57.6	59.3	58.4	60.6	59.5
Dorchester County	72.9	48.6	51.3	63.6	50.2	53.0
Frederick County	67.5	62.8	62.3	60.3	62.0	58.3
Garrett County	69.1	57.9	59.5	56.2	60.9	61.1
Harford County	66.1	61.9	61.0	57.9	63.5	60.3
Howard County	61.8	62.5	61.1	58.9	57.6	56.8
Kent County	59.6	49.0	48.4	51.7	46.9	54.8
Montgomery County	65.6	62.3	60.8	59.9	61.3	61.7
Prince George's County	65.9	60.4	60.7	59.3	59.6	58.7
Queen Anne's County	64.0	52.4	57.2	50.6	58.0	57.1
St. Mary's County	71.7	64.4	59.4	58.7	60.4	64.4
Somerset County	57.5	55.5	53.1	54.2	52.9	54.2
Talbot County	66.6	60.5	56.1	49.7	51.6	53.3
Washington County	63.4	59.7	62.2	62.9	62.8	66.3
Wicomico County	64.2	55.9	60.2	60.9	57.6	63.2
Worcester County	64.0	56.6	59.3	58.0	59.1	64.0
STATE OF MARYLAND	66.9	60.4	60.1	58.8	60.0	60.3
United States	70.9	65.6	65.3	65.0	65.6	65.9

Table 6b. Trend in Fertility Rates by Region and Selected Jurisdiction: Maryland, 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
Baltimore Metro Area	68.0	60.3	59.9	58.3	60.1	60.5
National Capital Area	65.8	61.3	60.7	59.6	60.4	60.2
Northwest Area	64.4	60.0	61.1	59.8	60.9	59.9
Southern Area	68.6	60.0	59.3	58.1	59.6	60.5
Eastern Shore Area	66.1	56.5	57.9	57.5	56.3	60.0
TOTAL	66.9	60.4	60.1	58.8	60.0	60.3
Baltimore City	78.5	61.0	61.6	60.0	63.0	66.0
Baltimore County	61.3	58.7	57.7	56.3	56.8	56.9
Montgomery County	65.6	62.3	60.8	59.9	61.3	61.7
Prince George's County	65.9	60.4	60.7	59.3	59.6	58.7

Note: Regions are those used by Vital Statistics. The Northwest area includes Garrett, Allegany, Washington and Frederick counties. The Baltimore Metro Area includes Baltimore City and Baltimore, Anne Arundel, Harford, Howard, and Carroll counties. The Southern Area includes Calvert, Charles and St. Mary's counties. The National Capital Area includes Montgomery and Prince George's counties. The Eastern Shore Area includes the remaining nine counties.

Source: Maryland Vital Statistics, Annual Reports; National Center for Health Statistics, National Vital Statistics Reports.

Table 7a. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age Less Than 15: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
Baltimore Metro Area	2.2	1.8	1.8	1.5	1.6	1.2
National Capital Area	1.3	1.0	0.7	0.8	0.7	0.7
Northwest Area	0.6	0.6	0.6	1.0	0.6	0.3
Southern Area	0.7	0.8	0.5	0.8	0.7	0.5
Eastern Shore Area	2.1	1.3	1.4	1.2	0.9	1.2
Total	1.7	1.3	1.2	1.2	1.1	0.9
Baltimore City	5.6	5.0	4.9	4.2	4.6	3.5
Baltimore County	0.8	0.7	0.6	0.5	0.7	0.6
Montgomery County	0.7	0.3	0.4	0.5	0.4	0.3
Prince George's County	1.9	1.8	1.0	1.1	1.0	1.1

Table 7b. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age 15-19: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
National Capital Area	40.6	38.3	38.0	34.5	35.2	33.6
Northwest Area	43.6	44.2	41.6	42.2	38.6	38.8
Southern Area	52.8	42.9	42.7	42.9	36.8	36.9
Eastern Shore Area	61.8	54.2	56.6	53.3	47.7	49.2
Total	53.2	47.7	46.0	43.9	43.0	42.5
Baltimore City	117.9	99.5	98.9	94.5	90.4	95.6
Baltimore County	34.1	36.5	32.8	33.0	36.3	35.2
Montgomery County	25.4	24.7	22.6	21.7	23.5	22.4
Prince George's County	52.9	50.1	51.3	45.6	45.0	43.1

Table 7c. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age 20-24: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
National Capital Area	78.2	73.8	75.5	75.6	76.2	76.3
Northwest Area	108.6	101.5	102.4	97.0	97.3	96.6
Southern Area	125.9	104.2	100.1	93.1	98.6	97.2
Eastern Shore Area	113.2	110.2	108.6	111.2	109.1	118.1
Total	97.0	87.4	87.1	86.2	88.5	90.1
Baltimore City	135.8	108.9	110.9	114.4	124.2	133.3
Baltimore County	78.5	77.7	74.6	77.0	73.8	79.9
Montgomery County	64.0	61.4	59.6	62.7	61.3	62.0
Prince George's County	88.6	82.9	87.3	85.5	87.7	87.5

Table 7d. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age 25-29: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
National Capital Area	105.7	90.8	97.6	97.1	97.0	98.7
Northwest Area	118.2	114.0	129.9	130.6	137.4	124.7
Southern Area	121.0	108.9	116.2	114.4	118.5	117.6
Eastern Shore Area	96.9	101.6	112.0	111.8	116.0	123.9
Total	110.0	97.7	106.2	104.1	107.3	107.7
Baltimore City	101.3	78.7	86.6	84.9	90.2	94.5
Baltimore County	111.5	105.8	111.4	105.7	112.4	110.3
Montgomery County	102.8	87.7	91.9	90.9	90.0	95.9
Prince George's County	108.4	93.7	102.9	103.1	103.9	101.4

Table 7e. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age 30-34: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
National Capital Area	95.5	99.3	93.1	92.9	95.4	96.3
Northwest Area	65.3	82.0	80.7	80.3	86.9	89.7
Southern Area	72.6	78.3	74.5	79.4	86.2	92.3
Eastern Shore Area	56.4	65.7	65.8	64.6	67.9	74.5
Total	83.0	87.7	84.0	84.3	88.4	90.5
Baltimore City	67.8	54.9	53.6	52.1	56.3	56.3
Baltimore County	87.0	90.9	88.0	86.7	86.3	89.4
Montgomery County	107.3	111.7	105.7	105.2	109.6	111.5
Prince George's County	83.4	86.7	80.3	80.2	80.6	80.5

Table 7f. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age 35-39: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
National Capital Area	44.4	47.3	47.3	46.7	50.2	50.8
Northwest Area	22.6	31.8	33.3	32.4	33.7	37.4
Southern Area	24.5	29.1	30.8	30.8	33.4	37.8
Eastern Shore Area	20.4	25.0	27.4	30.8	26.4	28.5
Total	34.3	38.5	38.9	38.8	40.5	42.0
Baltimore City	27.2	28.6	27.1	25.7	26.9	28.8
Baltimore County	33.7	36.7	38.2	38.6	38.8	38.5
Montgomery County	55.4	57.4	56.1	54.7	60.1	59.6
Prince George's County	32.5	36.7	38.0	38.1	39.4	41.1

Table 7g. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age 40-44: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
National Capital Area	8.3	10.0	10.1	10.7	11.3	11.4
Northwest Area	3.8	4.1	4.7	5.3	6.2	6.7
Southern Area	4.4	5.4	8.2	5.7	6.8	6.1
Eastern Shore Area	3.0	3.6	4.8	5.6	5.9	5.5
Total	5.5	7.0	7.6	7.8	8.2	8.5
Baltimore City	4.9	5.8	7.0	5.8	6.1	6.9
Baltimore County	4.2	6.4	6.8	7.2	7.5	7.1
Montgomery County	10.3	12.7	12.5	12.8	13.4	13.7
Prince George's County	6.0	7.2	7.6	8.5	9.0	8.8

Table 7h. Trends in Maryland Birth Rates by Region and Selected Jurisdiction of Residence, Age 45-49: 1990 - 1999

Region/ Selected Jurisdiction	1990	1995	1996	1997	1998	1999
National Capital Area	0.1	0.5	0.5	0.7	0.6	0.8
Northwest Area	0.0	0.1	0.0	0.3	0.0	0.3
Southern Area	0.3	0.3	0.1	0.1	0.1	0.1
Eastern Shore Area	0.0	0.5	0.3	0.2	0.3	0.5
Total	0.1	0.3	0.3	0.4	0.4	0.5
Baltimore City	0.1	0.2	0.3	0.2	0.2	0.3
Baltimore County	0.1	0.2	0.2	0.2	0.2	0.5
Montgomery County	0.2	0.7	0.8	1.0	0.8	1.0
Prince George's County	0.0	0.1	0.2	0.4	0.4	0.5

Note: Regions are those used by Vital Statistics Annual Report. Northwest Area includes Allegany, Frederick, Garrett and Washington counties. Baltimore Metro Area includes Baltimore City and Anne Arundel, Baltimore, Carroll, Harford and Howard counties. National Capital Area includes Montgomery and Prince George's Counties. Southern Area includes Calvert, Charles and St. Mary's counties. The four largest jurisdictions of Baltimore City and Baltimore, Montgomery and Prince George's counties are shown separately.

Source: Maryland Vital Statistics, Annual Reports

**Table 8a. Trends in Cesarean Section Delivery Rates As a Percent
of all Deliveries: Maryland, Selected Years, 1980-2001**

Jurisdiction	1980	1990	1995	2000	2001
Allegany County	10.5%	22.4%	18.5%	22.6%	24.9%
Anne Arundel County	21.1%	27.2%	20.3%	23.1%	27.9%
Baltimore City	19.4%	22.2%	20.7%	19.8%	24.0%
Baltimore County	21.8%	24.7%	24.0%	23.0%	27.6%
Calvert County	34.7%	26.2%	22.1%	21.8%	27.9%
Carroll County	16.3%	29.4%	21.3%	22.4%	29.1%
Cecil County	12.8%	20.9%	20.5%	17.4%	21.8%
Charles County	17.9%	25.7%	17.8%	20.7%	27.5%
Dorchester County	0.0%	0.0%	0.0%	0.0%	0.0%
Frederick County	15.4%	22.8%	21.8%	18.4%	22.0%
Garrett County	8.3%	10.4%	13.4%	9.8%	16.7%
Harford County	18.4%	18.2%	17.3%	12.8%	18.9%
Howard County	26.9%	24.3%	20.1%	23.3%	24.0%
Kent County	32.3%	42.1%	22.2%	16.9%	14.8%
Montgomery County	21.8%	26.5%	21.4%	22.4%	25.5%
Prince George's County	22.3%	25.9%	24.8%	24.0%	27.9%
Somerset County	0.0%	0.0%	0.0%	0.0%	0.0%
St. Mary's County	21.2%	33.0%	27.4%	19.7%	29.0%
Talbot County	16.9%	19.2%	11.2%	10.7%	14.7%
Washington County	14.0%	22.8%	20.7%	17.6%	21.8%
Wicomico County	20.2%	25.3%	25.9%	25.0%	29.2%
Worcester County	0.0%	0.0%	0.0%	0.0%	0.0%
MARYLAND TOTAL	19.9%	24.4%	21.7%	21.5%	25.4%

**Table 8b. Trends in Cesarean Section Delivery Rates As a Percent
of all Deliveries: Maryland, Selected Years, 1980-2001**

Region/ Selected Jurisdiction	1980	1990	1995	2000	2001
Western Maryland	12.7%	21.8%	20.2%	19.8%	22.3%
Montgomery County	21.8%	26.5%	21.4%	24.8%	25.5%
Southern Maryland	22.7%	26.7%	24.2%	26.3%	28.0%
Central Maryland	20.2%	23.4%	21.6%	24.1%	25.6%
Eastern Shore	18.4%	24.6%	21.3%	21.9%	23.4%
State Total	19.9%	24.4%	21.7%	24.0%	25.4%
Baltimore City	19.4%	22.2%	20.7%	23.2%	24.0%
Baltimore County	21.8%	24.7%	24.0%	25.1%	27.6%
Montgomery County	21.8%	26.5%	21.4%	24.8%	25.5%
Prince George's County	22.3%	25.9%	24.8%	27.9%	27.9%

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Source: Maryland Hospital Discharge Abstract

Table 9a. Trends in Obstetric Discharges, by Jurisdiction of Hospitalization: Maryland, Selected Years, 1980 - 2001

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001
Allegany County	1,912	1,423	1,284	1,274	1,223	1,198	1,114	1,144	1,112
Anne Arundel County	2,208	3,236	3,221	3,324	3,498	3,843	4,279	4,564	4,826
Baltimore City	20,129	25,234	17,961	17,235	16,767	17,192	17,093	17,084	16,851
Baltimore County	8,111	12,125	11,552	11,238	10,748	10,859	10,633	10,816	10,021
Calvert County	506	758	831	845	843	887	819	883	875
Carroll County	767	690	883	972	1,131	1,257	1,282	1,349	1,367
Cecil County	493	509	751	752	730	724	798	746	753
Charles County	520	515	768	535	740	939	1,027	1,107	1,036
Dorchester County	379	399	285	293	141	6	8	17	7
Frederick County	1,256	2,146	2,111	2,101	2,131	2,098	1,962	2,221	2,257
Garrett County	398	428	344	348	362	310	336	309	279
Harford County	1,064	847	786	838	784	831	738	769	1,185
Howard County	1,206	2,852	3,396	3,212	2,993	3,046	3,103	3,318	3,391
Kent County	304	282	241	231	259	244	252	268	233
Montgomery County	7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246
Prince George's County	4,703	6,445	6,577	6,855	6,137	5,960	6,016	6,014	5,948
Somerset County	152	2	1	0	1	1	2	1	4
St. Mary's County	661	928	778	877	911	828	899	858	881
Talbot County	959	1,208	875	800	1,010	1,064	1,097	1,148	1,132
Washington County	1,715	1,787	1,736	1,702	1,772	1,760	1,821	1,816	1,852
Wicomico County	1,936	2,444	2,150	2,271	2,225	2,158	2,290	2,345	2,337
Worcester County	0	0	6	10	0	5	3	2	2
MARYLAND TOTAL	56,660	81,184	72,654	71,846	69,848	70,800	71,460	73,079	72,595

Table 9b. Trends in Obstetric Discharges, by Region and Selected Jurisdiction: Maryland, Selected Years, 1980 - 2001

Region/ Selected Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001
Western Maryland	5,281	5,784	5,475	5,425	5,488	5,366	5,233	5,490	5,500
Montgomery County	7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246
Southern Maryland	6,390	8,646	8,954	9,112	8,631	8,614	8,761	8,862	8,740
Central Maryland	33,485	44,984	37,799	36,819	35,921	37,028	37,128	37,900	37,641
Eastern Shore	4,223	4,844	4,309	4,357	4,366	4,202	4,450	4,527	4,468
State Total	56,660	81,184	72,654	71,846	69,848	70,800	71,460	73,079	72,595
Baltimore City	20,129	25,234	17,961	17,235	16,767	17,192	17,093	17,084	16,851
Baltimore County	8,111	12,125	11,552	11,238	10,748	10,859	10,633	10,816	10,021
Montgomery County	7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246
Prince George's County	4,703	6,445	6,577	6,855	6,137	5,960	6,016	6,014	5,948

Notes: No hospitals are located in Caroline and Queen Anne's counties. Most of the 13 Maryland hospitals without obstetric programs occasionally treat and admit obstetric patients.

Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Source: Maryland Hospital Discharge Abstract

Table 10. Trends in Obstetric Discharges Maryland Hospitals: 1980 - 2001

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
<u>Allegany</u>	Frostburg Hospital	2	-	582	564	638	613	479	1,098	1,112
	Memorial of Cumberland Hospital	993	687	702	710	585	585	635	51	-
	Sacred Heart Hospital	917	736	1,284	1,274	1,223	1,198	1,114	1,144	1,112
<u>Frederick</u>	Total	1,912	1,423							
	Frederick Memorial Hospital	1,256	2,146	2,111	2,101	2,131	2,098	1,962	2,221	2,257
	Garrett County Memorial Hospital	398	428	344	348	362	310	336	309	279
<u>Garrett</u>	Washington County Hospital	1,715	1,787	1,736	1,702	1,772	1,760	1,821	1,816	1,852
	WESTERN MARYLAND TOTAL	5,281	5,784	5,475	5,425	5,488	5,366	5,233	5,490	5,500
<u>Montgomery</u>	Holy Cross Hospital	4,119	8,281	8,019	8,153	7,410	7,169	7,301	7,850	7,954
	Montgomery General Hospital	1,219	1,228	1,085	1,049	944	945	915	830	782
	Shady Grove Adventist Hospital	19	4,916	4,662	4,620	4,800	5,124	5,202	5,067	4,964
<u>MONTGOMERY COUNTY TOTAL</u>	Suburban Hospital	22	19	17	16	15	16	13	18	17
	Washington Adventist Hospital	1,902	2,482	2,334	2,295	2,273	2,336	2,457	2,535	2,529
	MONTGOMERY COUNTY TOTAL	7,281	16,926	16,117	16,133	15,442	15,590	15,888	16,300	16,246
<u>Calvert</u>	Calvert Memorial Hospital	506	758	831	845	843	887	819	883	875
	Physician's Memorial Hospital*	520	515	768	535	740	939	1,027	1,107	1,036
<u>Charles</u>	Doctor's Community Hospital	29	50	41	30	28	20	17	25	31
	Fort Washington Medical Center*	5	-	26	22	9	13	13	17	30
	Laurel Regional Hospital	14	669	798	867	855	923	993	831	649
<u>Prince George's</u>	Leland Memorial Hospital	14	27							
	Prince George's Hospital Center	3,232	3,798	3,979	3,889	3,389	3,268	3,137	3,318	3,297
	Southern Maryland Hospital Center	1,409	1,901	1,733	2,047	1,856	1,736	1,856	1,823	1,941
<u>St. Mary's</u>	Total	4,703	6,445	6,577	6,855	6,137	5,960	6,016	6,014	5,948
	St. Mary's Hospital	661	928	778	877	911	828	899	858	881
	SOUTHERN MARYLAND TOTAL	6,390	8,646	8,954	9,112	8,631	8,614	8,761	8,862	8,740

Table 10. Trends in Obstetric Discharges Maryland Hospitals: 1980 - 2001

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
Anne Arundel	Anne Arundel Medical Center	2,190	3,199	3,301	3,473	3,826	4,252	4,527	4,787	4,787
	North Arundel Hospital	18	37	25	25	17	27	37	39	39
	Total	2,208	3,236	3,221	3,324	3,498	4,279	4,564	4,826	4,826
Baltimore County	Franklin Square Hospital	2,501	4,463	3,523	3,002	2,810	2,972	3,032	3,304	3,000
	Greater Baltimore Medical Center	2,391	5,273	6,109	6,037	5,495	5,356	5,068	5,119	4,660
	Northwest Hospital Center	5	33	14	21	26	26	26	31	18
	St. Joseph Hospital	2,714	2,356	1,906	2,178	2,417	2,505	2,507	2,362	2,343
	Total	8,111	12,125	11,552	11,238	10,748	10,859	10,633	10,816	10,021
Baltimore City	Bon Secours Hospital	31	6	5	10	10	5	5	7	11
	Childrens Hospital	-	-	-	-	1	-	-	-	-
	Church Hospital	22	13	8	7	7	8	6	-	-
	Good Samaritan Hospital	1	4	14	14	15	21	13	23	20
	Harbor Hospital	1,376	2,531	1,989	1,732	1,612	1,758	1,928	2,094	2,013
	Homewood North/Wyman Park	-	1	27	-	-	-	-	-	-
	Homewood South/North Charles	2	1,373	1,138	1,277	1,287	1,398	1,379	1,350	1,383
	Johns Hopkins Bayview Medical Ctr.*	1,269	4,229	2,587	2,293	2,265	2,203	2,238	2,205	2,301
	Kernan Hospital	3,365	-	-	-	-	-	-	-	-
	Liberty Medical Center*	15	26	33	29	21	18	21	-	-
Carroll	Maryland General Hospital	1,245	1,161	713	614	610	870	977	1,188	1,126
	Mercy Medical Center	1,693	3,299	2,406	2,840	3,186	3,341	3,371	3,281	3,048
	Provident Hospital	780	-	-	-	-	-	-	-	-
	Sinai Hospital of Baltimore	3,921	4,609	3,304	3,056	2,498	2,436	2,359	2,508	2,325
	St. Agnes Hospital	2,483	3,107	2,296	2,391	2,528	2,449	2,269	2,095	2,096
	Union Memorial Hospital	1,237	1,987	1,266	1,076	910	958	906	792	869
	University of Maryland	2,189	2,861	2,202	1,896	1,817	1,727	1,621	1,541	1,659
	Total	20,129	25,234	17,961	17,235	16,767	17,192	17,093	17,084	16,851
	Carroll County General Hospital	767	690	883	972	1,131	1,257	1,282	1,349	1,367
	Falston General Hospital	7	11	3	6	7	9	12	172	1,181
Harford	Harford Memorial Hospital	1,057	836	783	832	777	822	726	597	4
	Total	1,064	847	786	838	784	831	738	769	1,185
	Howard County General Hospital	1,206	2,852	3,396	3,212	2,993	3,046	3,103	3,318	3,391
CENTRAL MARYLAND TOTAL		33,485	44,984	37,799	36,819	35,921	37,028	37,128	37,900	37,641

Table 10. Trends in Obstetric Discharges Maryland Hospitals: 1980 - 2001

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
<u>Cecil</u>	Union Hospital of Cecil	493	509	751	752	730	724	798	746	753
<u>Dorchester</u>	Dorchester General Hospital	379	399	285	293	141	6	8	17	7
<u>Kent</u>	Kent & Queen Anne's Hospital	304	282	241	231	259	244	252	268	233
<u>Somerset</u>	E. W. McCready Memorial Hospital	152	2	1	-	1	1	2	1	4
<u>Talbot</u>	Memorial Hospital at Easton	959	1,208	875	800	1,010	1,064	1,097	1,148	1,132
<u>Wicomico</u>	Peninsula Regional Medical Center	1,936	2,444	2,150	2,271	2,225	2,158	2,290	2,345	2,337
<u>Worcester</u>	Atlantic General Hospital	-	-	6	10	-	5	3	2	2
EASTERN SHORE TOTAL		4,223	4,844	4,309	4,357	4,366	4,202	4,450	4,527	4,468
MARYLAND TOTAL		56,660	81,184	72,654	71,846	69,848	70,800	71,460	73,079	72,595

Notes: Civista Medical Center formerly known as Physician's Memorial Hospital. Fort Washington Medical Center formerly known as Parkwood Community Hospital. Liberty Medical Center formerly known as Lutheran Hospital.
Johns Hopkins Bayview formerly known as Francis Scott Key. Upper Chesapeake Medical Center replaced Fallston General.

Source: Maryland Hospital Discharge Abstract

Table 11a. Trend in Obstetric Average Length of Stay, by Jurisdiction of Hospitalization: Maryland, 1980 - 2001

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001
Allegany County	3.67	2.30	1.86	2.03	2.12	2.14	2.18	2.19	2.22
Anne Arundel County	3.62	2.72	1.66	1.89	2.33	2.39	2.41	2.51	2.58
Baltimore City	4.13	2.95	2.47	2.67	2.86	2.85	2.92	2.95	3.02
Baltimore County	4.06	2.68	2.13	2.44	2.74	2.77	2.78	2.82	3.02
Calvert County	3.87	2.45	1.84	2.00	2.19	2.13	2.16	2.21	2.31
Carroll County	3.44	2.58	1.56	1.90	2.33	2.27	2.35	2.36	2.43
Cecil County	3.15	2.04	1.53	1.71	1.85	1.93	1.93	1.97	2.21
Charles County	3.64	2.42	2.09	2.28	2.75	2.26	2.29	2.29	2.33
Dorchester County	3.22	2.94	1.82	2.17	2.41	4.17	2.88	1.65	2.86
Frederick County	3.48	2.38	1.83	2.11	2.35	2.39	2.40	2.49	2.55
Garrett County	3.29	2.33	1.90	1.93	2.02	2.21	1.93	1.87	2.01
Harford County	3.81	1.97	1.32	1.50	1.65	1.72	1.70	1.88	2.21
Howard County	3.87	2.64	1.68	2.02	2.42	2.58	2.56	2.62	2.73
Kent County	3.99	2.57	1.82	2.07	2.39	2.31	2.54	2.54	2.39
Montgomery County	3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76
Prince George's County	4.00	2.73	2.12	2.45	2.60	2.64	2.62	2.59	2.60
Somerset County	3.96	2.50	1.00	-	3.00	3.00	1.50	4.00	2.25
St. Mary's County	2.95	2.28	1.72	1.89	2.08	2.13	2.08	2.11	2.18
Talbot County	2.98	2.53	1.62	1.92	2.29	2.20	2.30	2.31	2.27
Washington County	3.57	2.05	1.69	1.83	1.99	1.90	1.99	2.00	2.04
Wicomico County	3.45	2.82	1.98	2.37	2.42	2.38	2.46	2.50	2.53
Worcester County	-	-	2.17	2.30	-	2.20	1.00	3.00	2.50
MARYLAND TOTAL	3.90	2.72	2.06	2.32	2.59	2.60	2.64	2.66	2.74

Table 11b. Trend in Obstetric Average Length of Stay, by Region and Selected Jurisdiction: Maryland, 1980 - 2001

Region/ Selected Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001
Western Maryland	3.56	2.25	1.80	1.99	2.16	2.16	2.18	2.23	2.28
Montgomery County	3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76
Southern Maryland	3.85	2.64	2.06	2.34	2.52	2.49	2.48	2.47	2.50
Central Maryland	4.04	2.82	2.18	2.43	2.69	2.71	2.75	2.79	2.89
Eastern Shore	3.34	2.66	1.81	2.15	2.29	2.26	2.33	2.37	2.40
State Total	3.90	2.72	2.06	2.32	2.59	2.60	2.64	2.66	2.74
Baltimore City	4.13	2.95	2.47	2.67	2.86	2.85	2.92	2.95	3.02
Baltimore County	4.06	2.68	2.13	2.44	2.74	2.77	2.78	2.82	3.02
Montgomery County	3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76
Prince George's County	4.00	2.73	2.12	2.45	2.60	2.64	2.62	2.59	2.60

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Health Department Abstract

Table 12. Trends in Obstetric Average Length of Stay: Maryland Hospitals, 1980 - 2001

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
Allegany	Frostburg Community Hospital Memorial of Cumberland Hospital Sacred Heart Hospital Total	1.50 3.98 3.34 3.67	- 2.42 2.19 2.30	1.92 1.80 1.86	2.19 2.04 2.03	2.15 2.11 2.12	2.26 2.12 2.14	2.18 2.12 2.18	2.18 2.33 2.19	2.22 - 2.22
Frederick	Frederick Memorial Hospital	3.48	2.38	1.83	2.11	2.35	2.39	2.40	2.49	2.55
Garrett	Garrett County Memorial Hospital	3.29	2.33	1.90	1.93	2.02	2.21	1.93	1.87	2.01
Washington	Washington County Hospital	3.57	2.05	1.69	1.83	1.99	1.90	1.99	2.00	2.04
WESTERN MARYLAND TOTAL		3.56	2.25	1.80	1.99	2.16	2.16	2.18	2.23	2.28
Montgomery	Holy Cross Hospital Montgomery General Hospital Shady Grove Adventist Hospital Suburban Hospital Washington Adventist Hospital	4.08 3.44 3.89 6.36 3.59	2.71 2.63 2.60 2.37 2.77	1.99 1.92 1.82 2.41 1.95	2.20 2.17 2.21 2.81 2.22	2.69 2.47 2.59 2.66 2.49	2.72 2.51 2.66 2.71 2.49	2.70 2.59 2.71 2.38 2.64	2.79 2.52 2.82 2.00 2.58	2.45 2.83 2.12 2.66
MONTGOMERY COUNTY TOTAL		3.85	2.68	1.93	2.21	2.62	2.63	2.70	2.71	2.76
Calvert	Calvert Memorial Hospital	3.87	2.45	1.84	2.00	2.19	2.13	2.16	2.21	2.31
Charles	Physician's Memorial Hospital*	3.64	2.42	2.09	2.28	2.75	2.26	2.29	2.29	2.33
Prince George's	Doctor's Community Hospital Fort Washington Medical Center* Laurel Regional Hospital Leland Memorial Hospital Prince George's Hospital Center Southern Maryland Hospital Center Total	6.10 4.20 3.21 5.43 3.97 4.04 4.00	3.24 - 2.47 3.15 2.82 2.61 2.73	2.05 2.85 1.93 2.20 2.03 2.35 2.12	2.33 2.05 2.11 2.45 2.40 2.45 2.45	2.29 1.56 2.45 2.75 2.40 2.60 2.60	2.20 1.77 2.54 2.79 2.41 2.64 2.64	2.24 2.46 2.47 2.79 2.41 2.62 2.62	1.96 2.65 2.46 2.79 2.41 2.59 2.59	1.52 2.10 2.41 2.83 2.24 2.26 2.60
St. Mary's	St. Mary's Hospital	2.95	2.28	1.72	1.89	2.08	2.13	2.08	2.11	2.18
SOUTHERN MARYLAND TOTAL		3.85	2.64	2.06	2.34	2.52	2.49	2.48	2.47	2.50

Table 12: Trends in Obstetric Average Length of Stay: Maryland Hospitals, 1980 - 2001

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
<u>Anne Arundel</u>	Anne Arundel Medical Center	3.60	2.72	1.66	1.88	2.34	2.39	2.41	2.51	2.59
	North Arundel Hospital	5.33	3.57	1.88	2.22	1.84	2.47	2.41	1.84	1.56
	Total	3.62	2.72	1.66	1.89	2.33	2.39	2.41	2.51	2.58
<u>Baltimore County</u>	Franklin Square Hospital	3.80	2.74	2.12	2.35	2.57	2.67	2.59	2.62	2.74
	Greater Baltimore Medical Center	4.44	2.63	2.09	2.51	2.79	2.89	2.91	2.95	3.25
	Northwest Hospital Center	5.00	2.82	1.71	2.00	2.08	2.12	1.81	2.00	1.72
	St. Joseph Hospital	3.89	2.66	2.30	2.38	2.80	2.64	2.76	2.85	2.90
	Total	4.06	2.68	2.13	2.44	2.74	2.77	2.78	2.82	3.02
<u>Baltimore City</u>	Bon Secours Hospital	5.52	3.83	2.00	2.70	2.70	1.60	1.80	2.43	3.64
	Childrens Hospital	-	-	-	1.00	-	-	-	-	-
	Church Hospital	6.59	2.38	1.75	1.57	3.14	2.50	1.17	-	-
	Good Samaritan Hospital	1.00	3.50	2.29	1.93	3.87	2.48	1.69	2.39	2.25
	Harbor Hospital	3.90	2.44	1.94	2.21	2.62	2.44	2.52	2.61	2.45
	Homewood North/Wyman Park	-	4.00	-	-	-	-	-	-	-
	Homewood South/Notch Charles	3.50	3.41	2.40	2.58	2.73	2.90	3.02	3.13	3.12
	Johns Hopkins Bayview Medical Ctr.*	4.02	3.43	3.28	3.03	3.19	3.55	3.43	3.29	3.27
	Johns Hopkins Hospital	4.77	3.28	-	-	-	-	-	-	-
	Kernan Hospital	-	-	3.00	3.39	3.93	3.00	2.72	1.00	-
	Liberty Medical Center*	5.80	3.00	1.94	2.25	2.59	2.65	2.62	2.83	2.71
	Maryland General Hospital	4.34	2.48	2.97	2.49	2.59	2.75	2.79	2.87	2.88
	Mercy Medical Center	4.12	2.97	-	-	-	-	-	-	-
	Provident Hospital	4.47	-	-	-	-	-	-	-	-
	Sinai Hospital of Baltimore	3.96	2.77	2.33	2.47	2.67	2.76	2.96	2.99	2.91
	St. Agnes Hospital	3.71	2.61	2.29	2.85	2.87	2.79	2.95	2.96	3.07
	Union Memorial Hospital	4.11	2.81	2.26	2.50	2.70	2.64	2.37	2.46	2.57
	University of Maryland	3.91	3.59	3.02	2.96	2.93	3.02	3.37	3.17	3.29
	Total	4.13	2.95	2.47	2.67	2.86	2.85	2.92	2.95	3.02
<u>Carroll</u>	Carroll County General Hospital	3.44	2.58	1.56	1.90	2.33	2.27	2.35	2.36	2.43
<u>Harford</u>	Fallston General Hospital	4.29	3.00	1.67	2.17	2.71	1.78	1.67	2.08	2.20
	Harford Memorial Hospital	3.80	1.96	1.32	1.49	1.64	1.72	1.70	1.82	2.75
	Total	3.81	1.97	1.32	1.50	1.65	1.72	1.70	1.88	2.21
<u>Howard</u>	Howard County General Hospital	3.87	2.64	1.68	2.02	2.42	2.58	2.56	2.62	2.73
CENTRAL MARYLAND TOTAL										
		4.04	2.82	2.18	2.43	2.69	2.71	2.75	2.79	2.89

Table 12. Trends in Obstetric Average Length of Stay: Maryland Hospitals 1980 - 2001

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
<u>Cecil</u>	Union Hospital of Cecil	3.15	2.04	1.53	1.71	1.85	1.93	1.97	2.21	
<u>Dorchester</u>	Dorchester General Hospital	3.22	2.94	1.82	2.17	2.41	4.17	2.88	1.65	2.86
<u>Kent</u>	Kent & Queen Anne's Hospital	3.99	2.57	1.82	2.07	2.39	2.31	2.54	2.54	2.39
<u>Somerset</u>	E. W. McCready Memorial Hospital	3.96	2.50	1.00	-	3.00	3.00	1.50	4.00	2.25
<u>Talbot</u>	Memorial Hospital at Easton	2.98	2.53	1.62	1.92	2.29	2.20	2.30	2.31	2.27
<u>Wicomico</u>	Peninsula Regional Medical Center	3.45	2.82	1.98	2.37	2.42	2.38	2.46	2.50	2.53
<u>Worcester</u>	Atlantic General Hospital			2.17	2.30	-	2.20	1.00	3.00	2.50
EASTERN SHORE TOTAL		3.34	2.66	1.81	2.15	2.29	2.26	2.33	2.37	2.40
MARYLAND TOTAL		3.90	2.72	2.06	2.32	2.59	2.60	2.64	2.66	2.74

Notes: Civista Medical Center formerly known as Physician's Memorial Hospital, Fort Washington Medical Center formerly known as Parkwood Community Hospital, Liberty Medical Center, formerly known as Lutheran Hospital. Johns Hopkins Bayview formerly known as Francis Scott Key. Upper Chesapeake Medical Center replaced Fallston General.

Source: Maryland Hospital Discharge Abstract

Table 13a. Trend in Obstetric Average Daily Census, by Jurisdiction: Maryland, 1980 - 2001

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001
Allegany County	19.2	9.0	6.5	7.1	7.1	7.0	6.6	6.9	6.8
Anne Arundel County	21.9	24.2	14.7	17.2	22.3	25.2	28.3	31.4	34.2
Baltimore City	227.7	203.9	121.8	126.1	131.5	134.1	136.9	137.9	139.5
Baltimore County	90.2	88.9	67.5	75.1	80.6	82.5	81.0	83.7	82.8
Calvert County	5.4	5.1	4.2	4.6	5.1	5.2	4.8	5.4	5.5
Carroll County	7.2	4.9	3.8	5.1	7.2	7.8	8.3	8.7	9.1
Cecil County	4.3	2.8	3.1	3.5	3.7	3.8	4.2	4.0	4.6
Charles County	5.2	3.4	4.4	3.3	5.6	5.8	6.4	7.0	6.6
Dorchester County	3.3	3.2	1.4	1.7	0.9	0.1	0.1	0.1	0.1
Frederick County	12.0	14.0	10.6	12.1	13.7	13.7	12.9	15.1	15.8
Garrett County	3.6	2.7	1.8	1.8	2.0	1.9	1.8	1.6	1.5
Harford County	11.1	4.6	2.8	3.4	3.6	3.9	3.4	4.0	7.2
Howard County	12.8	20.6	15.6	17.7	19.8	21.5	21.7	23.8	25.3
Kent County	3.3	2.0	1.2	1.3	1.7	1.5	1.8	1.9	1.5
Montgomery County	76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0
Prince George's County	51.6	48.2	38.3	46.0	43.7	43.0	43.2	42.7	42.3
Somerset County	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Mary's County	5.3	5.8	3.7	4.5	5.2	4.8	5.1	5.0	5.3
Talbot County	7.8	8.4	3.9	4.2	6.3	6.4	6.9	7.3	7.0
Washington County	16.8	10.0	8.1	8.5	9.6	9.2	9.9	9.9	10.3
Wicomico County	18.3	18.9	11.7	14.8	14.7	14.1	15.5	16.1	16.2
Worcester County	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
MARYLAND TOTAL	605.5	604.6	410.2	455.9	495.1	504.1	516.1	533.2	544.5

**Table 13b. Trend in Obstetric Average Daily Census, by Region and Selected Jurisdiction:
Maryland, 1980 - 2001**

Region/ Selected Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001
Western Maryland	51.6	35.7	26.9	29.6	32.5	31.8	31.2	33.5	34.4
Montgomery County	76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0
Southern Maryland	67.5	62.5	50.5	58.5	59.5	58.8	59.6	60.0	59.8
Central Maryland	370.9	347.0	226.2	244.7	265.0	275.0	279.6	289.5	298.0
Eastern Shore	35.3	32.1	19.9	23.9	26.5	25.9	28.4	29.3	29.4
State Total	605.5	604.6	410.2	455.9	495.1	504.1	516.1	533.2	544.5
Baltimore City	227.7	203.9	121.8	126.1	131.5	134.1	136.9	137.9	139.5
Baltimore County	90.2	88.9	67.5	75.1	80.6	82.5	81.0	83.7	82.8
Montgomery County	76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0
Prince George's County	51.6	48.2	38.3	46.0	43.7	43.0	43.2	42.7	42.3

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City.

Source: Maryland Hospital Discharge Abstract

Table 14. Trend in Obstetric Average Daily Census: Maryland Hospitals, 1980 - 2001

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
<u>Allegany</u>	Frostburg Hospital	0.01	0.0	3.1	3.4	3.8	3.6	3.0	6.5	6.8
	Memorial of Cumberland Hospital	10.8	4.6	3.5	3.7	3.3	3.4	3.7	0.3	0.0
	Sacred Heart Hospital	8.4	4.4	6.5	7.1	7.1	7.0	6.6	6.9	6.8
<u>Frederick</u>	Total	19.2	9.0							
	Frederick Memorial Hospital	12.0	14.0	10.6	12.1	13.7	13.7	12.9	15.1	15.8
<u>Garrett</u>	Garrett County Memorial Hospital	3.6	2.7	1.8	1.8	2.0	1.9	1.8	1.6	1.5
	Washington County Hospital	16.8	10.0	8.1	8.5	9.6	9.2	9.9	9.9	10.3
WESTERN MARYLAND TOTAL		51.6	35.7	26.9	29.6	32.5	31.8	31.2	33.5	34.4
<u>Montgomery</u>	Holy Cross Hospital	46.1	61.4	43.7	49.2	54.6	52.6	54.4	58.0	60.8
	Montgomery General Hospital	11.5	8.8	5.7	6.2	6.4	6.5	6.5	5.7	5.2
	Shady Grove Adventist Hospital	0.2	35.0	23.3	28.0	34.0	37.4	38.6	39.1	38.4
	Suburban Hospital	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Washington Adventist Hospital	18.7	18.8	12.4	13.9	15.5	15.9	17.8	17.9	18.4
MONTGOMERY COUNTY TOTAL		76.8	124.2	85.2	97.5	110.7	112.5	117.3	120.9	123.0
<u>Calvert</u>	Calvert Memorial Hospital	5.4	5.1	4.2	4.6	5.1	5.2	4.8	5.4	5.5
	Physician's Memorial Hospital*	5.2	3.4	4.4	3.3	5.6	5.8	6.4	7.0	6.6
<u>Charles</u>	Doctor's Community Hospital	0.5	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	Fort Washington Medical Center*	0.1	0.0	0.2	0.1	0.0	0.1	0.1	0.1	0.2
	Laurel Regional Hospital	0.1	4.5	4.2	5.0	5.7	6.4	6.7	5.6	4.3
	Leland Memorial	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	Prince George's Hospital Center	35.1	29.4	24.0	27.5	25.5	25.0	24.0	25.7	25.7
<u>Prince George's</u>	Southern Maryland Hospital Center	15.6	13.6	9.7	13.2	12.2	11.5	12.3	11.2	12.0
	Total	51.6	48.2	38.3	46.0	43.7	43.0	43.2	42.7	42.3
	St. Mary's Hospital	5.3	5.8	3.7	4.5	5.2	4.8	5.1	5.0	5.3
SOUTHERN MARYLAND TOTAL		67.5	62.5	50.5	58.5	59.5	58.8	59.6	60.0	59.8

Table 14. Trend in Obstetric Average Daily Census: Maryland Hospitals 1980 - 2001 (continued)

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
<u>Anne Arundel</u>	Anne Arundel Medical Center	21.6	23.8	14.6	17.0	22.2	25.0	28.1	31.2	34.0
	North Arundel Hospital	0.3	0.4	0.1	0.1	0.1	0.1	0.2	0.2	0.2
	Total	21.9	24.2	14.7	17.2	22.3	25.2	28.3	31.4	34.2
<u>Baltimore County</u>	Franklin Square Hospital	26.1	33.5	20.4	19.3	19.8	21.7	21.5	23.7	22.5
	Greater Baltimore Medical Center	35.1	38.0	35.0	41.5	42.1	42.5	40.4	41.3	41.5
	Northwest Hospital Center	0.1	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.1
	St. Joseph Hospital	29.0	17.1	12.0	14.2	18.5	18.1	18.9	18.5	18.6
	Total	90.2	88.9	67.5	75.1	80.6	82.5	81.0	83.7	82.8
<u>Baltimore City</u>	Bon Secours Hospital	0.5	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1
	Childrens Hospital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Church Hospital	0.4	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0
	Good Samaritan Hospital	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.2	0.1
	Harbor Hospital	20.0	16.9	10.6	10.5	11.6	11.8	13.3	15.0	13.5
	Homewood North/Wyman Park	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Homewood South/North Charles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Johns Hopkins Bayview Medical Ctr.*	14.0	12.9	7.5	9.0	9.6	11.1	11.4	11.6	11.8
	Johns Hopkins Hospital	44.0	38.0	21.5	20.1	22.0	20.7	20.2	19.8	23.1
	Kernan Hospital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Liberty Medical Center*	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.0
	Maryland General Hospital	14.8	7.9	3.8	3.8	4.3	6.3	7.0	9.2	8.4
	Mercy Medical Center	19.1	26.9	16.4	20.2	24.0	25.5	26.5	25.9	25.2
	Provident Hospital	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Sinai Hospital of Baltimore	42.5	34.9	21.1	20.7	18.3	18.4	19.1	20.5	18.5
	St. Agnes Hospital	25.2	22.2	14.4	18.7	19.9	18.7	18.3	17.0	17.7
	Union Memorial Hospital	13.9	15.3	7.8	7.4	6.7	6.9	5.9	5.3	6.1
	University of Maryland	23.5	28.2	18.2	15.4	14.6	14.3	14.9	13.4	14.9
	Total	227.7	203.9	121.8	126.1	131.5	134.1	136.9	137.9	139.5
<u>Carroll</u>	Carroll County General Hospital	7.2	4.9	3.8	5.1	7.2	7.8	8.3	8.7	9.1
<u>Harford</u>	Falston General Hospital	0.1	0.1	0.0	0.0	0.1	0.0	0.1	1.0	7.1
	Harford Memorial Hospital	11.0	4.5	2.8	3.4	3.5	3.9	3.4	3.0	0.0
	Total	11.1	4.6	2.8	3.4	3.6	3.9	3.4	4.0	7.2
<u>Howard</u>	Howard County General Hospital	12.8	20.6	15.6	17.7	19.8	21.5	21.7	23.8	25.3
CENTRAL MARYLAND TOTAL		370.9	347.0	226.2	244.7	265.0	275.0	279.6	289.5	298.0

Table 14. Trend in Obstetric Average Daily Census: Maryland Hospitals 1980 - 2001 (continued)

Region/ Jurisdiction	Hospital Name	1980	1990	1995	1996	1997	1998	1999	2000	2001
<u>Cecil</u>	Union Hospital of Cecil	4.3	2.8	3.1	3.5	3.7	3.8	4.2	4.0	4.6
<u>Dorchester</u>	Dorchester General Hospital	3.3	3.2	1.4	1.7	0.9	0.1	0.1	0.1	0.1
<u>Kent</u>	Kent & Queen Anne's Hospital	3.3	2.0	1.2	1.3	1.7	1.5	1.8	1.9	1.5
<u>Somerset</u>	E. W. McCready Memorial Hospital	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<u>Talbot</u>	Memorial Hospital at Easton	7.8	8.4	3.9	4.2	6.3	6.4	6.9	7.3	7.0
<u>Wicomico</u>	Peninsula Regional Medical Center	18.3	18.9	11.7	14.8	14.7	14.1	15.5	16.1	16.2
<u>Worcester</u>	Atlantic General Hospital	-	-	0.0	0.1	0.0	0.0	0.0	0.0	0.0
EASTERN SHORE TOTAL		38.7	35.3	21.3	25.6	27.4	26.0	28.4	29.4	29.4
MARYLAND TOTAL		605.5	604.6	410.2	455.9	495.1	504.1	516.1	533.2	544.5

Notes: Civista Medical Center formerly known as Physician's Memorial Hospital. Fort Washington Medical Center formerly known as Parkwood Community Hospital.
 Liberty Medical Center formerly known as Lutheran Hospital. Johns Hopkins Bayview formerly known as Francis Scott Key. Upper Chesapeake Medical Center replaced Fallston General.

Source: Maryland Hospital Discharge Abstract

**Table 15a. Trends in Obstetric Services Average Charge Per Case, by Jurisdiction of Hospitalization:
Maryland, 1980 - 2001**

Jurisdiction	1980	1990	1995	1996	1997	1998	1999	2000	2001
Allegany County	\$674	\$2,082	\$2,898	\$3,119	\$3,245	\$3,320	\$3,274	\$3,806	\$4,075
Anne Arundel County	\$956	\$2,018	\$2,653	\$3,030	\$3,652	\$3,774	\$3,652	\$3,553	\$3,710
Baltimore City	\$1,387	\$2,688	\$3,720	\$3,870	\$3,983	\$4,129	\$4,547	\$4,769	\$4,968
Baltimore County	\$1,236	\$2,194	\$2,937	\$3,064	\$3,270	\$3,563	\$3,667	\$3,801	\$3,843
Calvert County	\$1,003	\$2,001	\$2,591	\$2,659	\$2,899	\$2,981	\$3,041	\$3,110	\$3,162
Carroll County	\$849	\$2,284	\$2,279	\$2,526	\$2,920	\$3,034	\$3,391	\$3,745	\$3,912
Cecil County	\$753	\$2,288	\$2,588	\$2,816	\$3,035	\$3,544	\$3,310	\$3,235	\$3,723
Charles County	\$991	\$1,614	\$2,278	\$2,781	\$3,289	\$3,582	\$3,100	\$2,837	\$3,113
Dorchester County	\$745	\$2,240	\$2,179	\$2,744	\$3,205	\$3,127	\$3,038	\$2,361	\$2,659
Frederick County	\$735	\$1,751	\$2,397	\$2,557	\$2,666	\$2,622	\$2,661	\$2,568	\$2,959
Garrett County	\$634	\$2,087	\$2,216	\$2,586	\$2,430	\$2,692	\$3,077	\$2,976	\$3,228
Harford County	\$797	\$1,638	\$2,559	\$2,980	\$2,935	\$2,828	\$2,765	\$3,341	\$3,409
Howard County	\$1,453	\$2,210	\$2,601	\$3,152	\$3,492	\$3,293	\$3,252	\$3,341	\$3,443
Kent County	\$954	\$2,649	\$3,074	\$3,538	\$3,823	\$3,601	\$3,149	\$4,101	\$5,277
Montgomery County	\$1,284	\$1,982	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	\$3,445	\$3,528
Prince George's County	\$1,210	\$2,596	\$3,332	\$3,672	\$3,716	\$3,621	\$3,855	\$3,896	\$4,004
Somerset County	\$1,043	\$2,333	\$2,181	\$0	\$5,331	\$5,252	\$12,297	\$9,626	\$5,615
St. Mary's County	\$783	\$1,862	\$2,498	\$2,853	\$3,106	\$3,263	\$3,369	\$3,347	\$3,689
Talbot County	\$1,038	\$1,658	\$2,329	\$2,693	\$3,207	\$3,338	\$3,543	\$3,551	\$3,518
Washington County	\$687	\$1,964	\$2,338	\$2,583	\$2,814	\$2,512	\$2,510	\$2,552	\$2,757
Wicomico County	\$985	\$1,745	\$2,308	\$2,584	\$3,070	\$3,159	\$3,225	\$3,203	\$3,164
Worcester County	\$0	\$0	\$1,927	\$3,130	\$0	\$2,898	\$4,881	\$4,271	\$1,797
MARYLAND TOTAL	\$1,192	\$2,276	\$3,013	\$3,260	\$3,518	\$3,560	\$3,696	\$3,785	\$3,916

Table 15b. Trends in Obstetric Services Average Charge Per Case, by Region and Selected Jurisdiction: Maryland, 1980 - 2001

Regions/ Selected Jurisdictions	1980	1990	1995	1996	1997	1998	1999	2000	2001
Western Maryland	\$690	\$1,923	\$2,485	\$2,699	\$2,827	\$2,746	\$2,766	\$2,843	\$3,130
Montgomery County	\$1,284	\$1,982	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	\$3,445	\$3,528
Southern Maryland	\$1,131	\$2,407	\$3,101	\$3,447	\$3,535	\$3,517	\$3,640	\$3,633	\$3,782
Central Maryland	\$1,294	\$2,450	\$3,232	\$3,430	\$3,640	\$3,791	\$4,007	\$4,156	\$4,282
Eastern Shore	\$948	\$1,874	\$2,395	\$2,706	\$3,145	\$3,296	\$3,319	\$3,348	\$3,459
State Total	\$1,192	\$2,276	\$3,013	\$3,260	\$3,518	\$3,560	\$3,695	\$3,785	\$3,916
Baltimore City	\$1,387	\$2,688	\$3,720	\$3,870	\$3,983	\$4,129	\$4,545	\$4,769	\$4,968
Baltimore County	\$1,236	\$2,194	\$2,937	\$3,064	\$3,270	\$3,563	\$3,666	\$3,801	\$3,843
Montgomery County	\$1,284	\$1,982	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	\$3,445	\$3,528
Prince George's County	\$1,210	\$2,596	\$3,332	\$3,672	\$3,716	\$3,621	\$3,854	\$3,896	\$4,004

Note: Western Maryland includes Allegany, Garrett, Frederick and Washington counties. Southern Maryland includes Charles, Calvert, St. Mary's and Prince George's counties. Central Maryland includes Anne Arundel, Carroll, Baltimore, Harford and Howard counties and Baltimore City

Source: Maryland Hospital Discharge Abstract

Table 16. Trend in Obstetric Services Average Charge Per Case: Maryland Hospitals, 1980 - 2001

Region/ Jurisdiction	Hospital	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Allegany	Frostburg Hospital, Inc.	\$0	\$0	\$0	\$0	\$0	\$3,447	\$3,728	\$3,650	\$3,588	\$3,870
	Memorial of Cumberland Hospital	\$2,106	\$2,548	\$2,698	\$3,169	\$3,184	\$2,444	\$2,636	\$2,803	\$3,029	\$2,825
	Sacred Heart Hospital	\$2,059	\$2,226	\$2,320	\$2,350	\$2,240	\$2,642	\$2,898	\$3,119	\$3,245	\$3,320
	Total	\$2,082	\$2,381	\$2,488	\$2,694	\$2,642	\$2,898	\$3,119	\$3,245	\$3,320	\$3,274
Frederick	Frederick Memorial Hospital	\$1,751	\$1,801	\$2,000	\$2,161	\$2,321	\$2,397	\$2,557	\$2,666	\$2,622	\$2,661
	Garrett Co. Memorial Hospital	\$2,087	\$2,236	\$2,301	\$2,438	\$2,189	\$2,216	\$2,586	\$2,430	\$2,692	\$3,077
	Washington County Hospital	\$1,964	\$1,969	\$2,084	\$2,193	\$2,258	\$2,338	\$2,583	\$2,814	\$2,512	\$2,510
	WESTERN MARYLAND AVERAGE	\$1,923	\$2,037	\$2,173	\$2,322	\$2,371	\$2,485	\$2,699	\$2,827	\$2,746	\$2,766
Montgomery	Holy Cross Hospital	\$1,957	\$2,128	\$2,274	\$2,421	\$2,696	\$2,811	\$3,080	\$3,502	\$3,297	\$3,245
	Montgomery General Hospital	\$2,752	\$2,513	\$2,587	\$2,575	\$2,418	\$2,504	\$2,940	\$3,283	\$3,599	\$3,611
	Shady Grove Adventist Hospital	\$1,849	\$2,177	\$2,484	\$2,578	\$2,630	\$2,905	\$3,197	\$3,579	\$3,330	\$3,340
	Suburban Hospital	\$2,596	\$2,826	\$3,472	\$3,909	\$3,532	\$3,463	\$4,978	\$5,504	\$5,111	\$4,636
MONTGOMERY COUNTY TOTAL	Washington Adventist Hospital	\$1,942	\$2,273	\$2,713	\$3,057	\$3,098	\$2,654	\$3,090	\$3,919	\$3,693	\$3,954
	\$1,982	\$2,193	\$2,434	\$2,588	\$2,719	\$2,796	\$3,107	\$3,576	\$3,387	\$3,408	
Calvert Charles	Calvert Memorial Hospital	\$2,001	\$2,064	\$2,413	\$2,514	\$2,641	\$2,591	\$2,659	\$2,899	\$2,981	\$3,041
	Civista Medical Center	\$1,614	\$1,841	\$1,858	\$1,916	\$1,854	\$2,278	\$2,781	\$3,289	\$3,532	\$3,100
	Doctor's Community Hospital	\$2,141	\$2,377	\$2,830	\$3,019	\$2,531	\$2,977	\$4,362	\$4,198	\$3,905	\$4,376
	Fort Washington Medical Center	\$0	\$1,498	\$2,456	\$2,274	\$3,291	\$3,484	\$3,096	\$3,144	\$4,095	\$4,464
Prince George's	Laurel Regional Hospital	\$1,877	\$2,193	\$3,121	\$2,776	\$3,364	\$3,760	\$3,106	\$3,229	\$3,723	\$4,324
	Leland Memorial Hospital	\$1,824	\$3,245	\$3,114	\$2,971	\$0	\$0	\$0	\$0	\$0	\$0
	Prince George's Hospital Center	\$2,841	\$3,155	\$2,749	\$3,026	\$3,074	\$3,266	\$3,566	\$3,388	\$3,488	\$3,517
	Southern Maryland Hosp. Ctr.	\$2,382	\$2,405	\$2,533	\$2,744	\$3,465	\$3,293	\$4,111	\$4,533	\$3,811	\$4,165
St. Mary's	Total	\$2,596	\$2,816	\$2,756	\$2,922	\$3,203	\$3,332	\$3,672	\$3,716	\$3,621	\$3,855
	St. Mary's Hospital	\$1,862	\$2,123	\$2,469	\$2,322	\$2,327	\$2,498	\$2,853	\$3,106	\$3,263	\$3,369
	SOUTHERN MARYLAND TOTAL	\$2,407	\$2,608	\$2,632	\$2,763	\$2,975	\$3,101	\$3,447	\$3,535	\$3,517	\$3,640
	Anne Arundel	Anne Arundel Medical Center	\$2,011	\$2,115	\$2,189	\$2,564	\$2,865	\$2,644	\$3,022	\$3,650	\$3,772
Baltimore County	North Arundel Hospital	\$2,634	\$3,109	\$3,419	\$2,866	\$3,371	\$3,776	\$4,154	\$3,956	\$4,422	\$4,500
	Total	\$2,018	\$2,123	\$2,203	\$2,566	\$2,869	\$2,653	\$3,030	\$3,652	\$3,774	\$3,652
	Northwest Hospital Center	\$2,302	\$2,835	\$3,376	\$3,206	\$3,508	\$3,550	\$3,409	\$3,645	\$4,434	\$3,961
	Franklin Square Hospital	\$2,436	\$2,586	\$2,694	\$2,743	\$3,012	\$3,476	\$3,142	\$3,202	\$3,570	\$3,981
	Greater Baltimore Medical Center	\$1,831	\$2,106	\$2,253	\$2,798	\$2,633	\$2,667	\$2,968	\$3,323	\$3,767	\$3,725
	St. Joseph Hospital	\$2,544	\$2,428	\$2,712	\$2,586	\$2,544	\$2,803	\$3,220	\$3,108	\$3,166	\$3,166
	Total	\$2,194	\$2,353	\$2,509	\$2,743	\$2,740	\$2,937	\$3,064	\$3,270	\$3,563	\$3,667

Table 16. Trend in Obstetric Services Average Charge Per Case: Maryland Hospitals, 1980 - 2001

Region/ Jurisdiction	Hospital	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Baltimore City	Bon Secours Hospital	\$3,366	\$3,964	\$3,867	\$4,862	\$5,211	\$4,250	\$5,081	\$5,751	\$6,135	\$4,327
	Childrens Hospital	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,315	\$0	\$0
	Church Hospital	\$2,299	\$2,863	\$4,088	\$4,340	\$3,817	\$3,661	\$4,113	\$5,493	\$4,230	\$4,495
	Good Samaritan Hospital	\$2,895	\$3,791	\$2,937	\$2,844	\$4,486	\$4,519	\$4,087	\$5,263	\$5,154	\$3,515
	Harbor Hospital	\$2,560	\$2,356	\$2,065	\$3,072	\$3,065	\$3,065	\$3,377	\$3,722	\$4,154	\$3,778
	Homewood/North Wyman Park	\$1,778	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Homewood/South Charles	\$2,818	\$2,243	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Johns Hopkins Bayview Medical Ctr.	\$3,553	\$3,797	\$4,113	\$4,434	\$3,827	\$4,345	\$4,273	\$4,334	\$4,590	\$4,776
	Johns Hopkins Hospital	\$2,961	\$3,225	\$3,310	\$3,940	\$4,248	\$4,697	\$5,344	\$5,259	\$4,987	\$4,572
	Kernan Hospital	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Liberty Medical Center	\$3,506	\$3,289	\$3,946	\$4,564	\$3,995	\$4,983	\$4,583	\$4,036	\$4,836	\$3,611
	Lutheran Hospital	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Maryland General Hospital	\$2,643	\$3,028	\$3,329	\$3,636	\$3,786	\$3,055	\$3,135	\$4,779	\$5,593	\$5,889
	Mercy Medical Center	\$2,421	\$3,026	\$3,450	\$3,831	\$3,528	\$3,361	\$3,620	\$3,406	\$3,507	\$4,144
	Provident Hospital	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sinai Hospital of Baltimore	\$2,317	\$2,197	\$2,684	\$2,964	\$2,984	\$3,131	\$3,346	\$3,646	\$4,189	\$4,542
	St. Agnes Hospital	\$2,677	\$2,560	\$2,371	\$2,636	\$2,305	\$3,205	\$3,219	\$3,432	\$3,476	\$4,661
	Union Memorial Hospital	\$2,407	\$2,676	\$3,101	\$3,640	\$3,713	\$3,782	\$3,883	\$4,024	\$4,447	\$4,144
	University of Maryland	\$3,104	\$2,914	\$3,656	\$3,782	\$4,164	\$4,431	\$4,202	\$3,924	\$4,222	\$5,349
	Total	\$2,688	\$2,773	\$3,112	\$3,467	\$3,575	\$3,720	\$3,870	\$3,983	\$4,129	\$4,547
Carroll	Carroll Co. General Hospital	\$2,284	\$2,943	\$2,859	\$2,510	\$2,600	\$2,279	\$2,526	\$2,920	\$3,034	\$3,391
	Falston General Hospital	\$2,283	\$2,930	\$2,154	\$2,979	\$5,634	\$2,401	\$3,14	\$4,443	\$2,636	\$2,932
	Harford Memorial Hospital	\$1,629	\$2,156	\$2,470	\$3,162	\$2,799	\$2,560	\$2,978	\$2,921	\$2,830	\$2,762
	Total	\$1,638	\$2,169	\$2,468	\$3,159	\$2,824	\$2,559	\$2,988	\$2,936	\$2,828	\$2,765
Howard	Howard Co. General Hospital	\$2,210	\$2,174	\$2,209	\$2,568	\$2,578	\$2,601	\$3,152	\$3,492	\$3,293	\$3,252
	CENTRAL MARYLAND TOTAL	\$2,450	\$2,562	\$2,796	\$3,090	\$3,149	\$3,232	\$3,430	\$3,640	\$3,791	\$4,007
Caroline	Union Hospital of Cecil	\$2,288	\$2,617	\$2,724	\$2,833	\$2,586	\$2,588	\$2,816	\$3,035	\$3,544	\$3,310
Cecil	Dorchester	\$2,240	\$2,261	\$2,974	\$2,258	\$2,120	\$2,179	\$2,74	\$2,05	\$3,127	\$3,038
Dorchester	Kent & Queen Anne's Hospital	\$2,649	\$2,689	\$2,831	\$3,320	\$3,816	\$3,074	\$3,538	\$3,823	\$3,601	\$3,149
Kent	Queen Anne's	\$2,333	\$0	\$0	\$4,605	\$3,344	\$2,181	\$0	\$5,331	\$5,255	\$12,297
Queen Anne's	Upper Chesapeake Medical Center	\$1,658	\$1,616	\$1,932	\$1,936	\$1,862	\$2,329	\$2,693	\$3,207	\$3,338	\$3,543
Somerset	Talbot	\$1,745	\$1,856	\$1,881	\$2,054	\$2,122	\$2,308	\$2,584	\$3,070	\$3,159	\$3,225
Wicomico	Peninsula Regional Medical Center	\$0	\$0	\$0	\$0	\$2,626	\$1,927	\$3,130	\$0	\$2,898	\$4,881
Worcester	Atlantic General Hospital										
	EASTERN SHORE TOTAL	\$1,874	\$1,959	\$2,135	\$2,235	\$2,240	\$2,395	\$2,706	\$3,145	\$3,296	\$3,319
	MARYLAND TOTAL	\$2,276	\$2,415	\$2,615	\$2,836	\$2,920	\$3,013	\$3,260	\$3,518	\$3,560	\$3,696

Note: Civista Medical Center was formerly known as Physician's Memorial Hospital. Fort Washington Medical Center formerly Parkwood Community Hospital. Liberty Medical Center was formerly known as Lutheran Hospital.
 Upper Chesapeake Medical Center replaced Faiston General. Johns Hopkins Bayview was formerly known as Francis Scott Key

Source: Maryland Hospital Discharge Abstract

Table 17a. Trend in Hospital Obstetric Service Discharges by Payer Source: Maryland, 1980 - 2001

Payer	1990	1995	1996	1997	1998	1999	2000	2001
Medicare	224	122	103	192	213	261	294	179
All Medicaid	20,397	20,404	20,586	18,332	19,380	21,653	23,716	24,782
Medicaid	20,397	17,931	18,236	14,205	4,990	5,216	5,186	5,919
Medicaid HMO	0	2,473	2,350	4,127	14,390	16,437	18,530	18,863
HMO	17,249	25,168	26,237	27,131	28,825	26,860	25,052	22,279
Blue Cross	13,827	9,796	9,940	9,760	9,569	10,206	11,436	12,943
Commercial	22,747	12,696	11,397	10,606	10,084	10,097	10,490	10,777
Self Pay	5,596	3,758	2,762	2,755	2,044	1,499	1,327	810
NoCharge	21	2	12	14	1	15	11	6
Other	1,123	696	801	1,039	675	865	738	819
Total	81,184	72,642	71,838	69,829	70,791	71,456	73,064	72,595

Table 17b. Trend in Hospital Obstetric Service Payer Mix by Payer Source: Maryland, 1980 - 2001

Payer	1990	1995	1996	1997	1998	1999	2000	2001
Medicare	0.3%	0.2%	0.1%	0.3%	0.3%	0.4%	0.4%	0.2%
All Medicaid	25.1%	28.1%	28.7%	26.3%	27.4%	30.3%	32.5%	34.1%
HMO	21.2%	34.6%	36.5%	38.9%	40.7%	37.6%	34.3%	30.7%
Blue Cross	17.0%	13.5%	13.8%	14.0%	13.5%	14.3%	15.7%	17.8%
Commercial	28.0%	17.5%	15.9%	15.2%	14.2%	14.1%	14.4%	14.8%
Self Pay	6.9%	5.2%	3.8%	3.9%	2.9%	2.1%	1.8%	1.1%
NoCharge	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	1.4%	1.0%	1.1%	1.5%	1.0%	1.2%	1.0%	1.1%

Notes: "Other" may include other government, Title V, workmen's comp, and payer unknown. In 1995, Medicaid HMO includes Medicaid MSO (90 cases).

Source: Maryland Hospital Discharge Abstract

Table 18. Acute Care Obstetric Service Payer Mix, Percent of Cases by Payer: Maryland Hospitals, 2001

Region/ Jurisdiction	Hospital Name	Source of Payment						Total Cases		
		Medicare	Medicaid	Medicaid HMO	HMO	Blue Cross	Commercial	Self Pay	No Charge	Other
<u>Allegany</u>	Memorial of Cumberland Hospital	0.0%	12.8%	29.2%	19.4%	24.9%	12.1%	1.3%	0.0%	0.3%
<u>Frederick</u>	Frederick Memorial Hospital	0.3%	3.1%	21.3%	48.0%	16.9%	7.7%	1.0%	0.0%	1.6%
<u>Garrett</u>	Garrett County Memorial Hospital	0.0%	14.3%	48.0%	14.7%	15.1%	5.4%	2.2%	0.0%	0.4%
<u>Washington</u>	Washington County Hospital	0.5%	3.0%	31.5%	25.4%	19.8%	18.1%	1.7%	0.0%	0.0%
WESTERN MARYLAND TOTAL		0.3%	5.6%	27.7%	32.9%	19.4%	11.9%	1.4%	0.0%	0.7%
<u>Montgomery</u>	Holy Cross Hospital	0.1%	17.9%	7.8%	49.3%	11.4%	12.3%	1.2%	0.0%	0.1%
	Montgomery General Hospital	0.0%	1.9%	16.0%	40.3%	14.7%	25.2%	1.8%	0.1%	0.0%
	Shady Grove Adventist Hospital	0.0%	2.6%	11.2%	44.4%	20.7%	16.0%	1.3%	0.0%	3.7%
	Suburban Hospital	0.0%	5.9%	11.8%	35.3%	35.3%	5.9%	5.9%	0.0%	4.964
	Washington Adventist Hospital	0.2%	5.7%	30.4%	38.1%	8.3%	10.3%	4.5%	0.0%	17
MONTGOMERY COUNTY TOTAL		0.1%	10.6%	12.8%	45.6%	13.9%	13.7%	1.8%	0.0%	2.6%
<u>Calvert</u>	Calvert Memorial Hospital	0.1%	2.2%	24.8%	41.7%	22.1%	5.1%	0.3%	0.2%	3.4%
<u>Charles</u>	Civista Medical Center	0.2%	3.6%	24.2%	38.2%	23.6%	9.5%	0.8%	0.0%	0.0%
<u>Prince George's</u>	Doctor's Community Hospital	0.0%	3.2%	9.7%	51.6%	9.7%	6.5%	16.1%	0.0%	3.2%
	Fort Washington Medical Center*	0.0%	6.7%	6.7%	43.3%	6.7%	6.7%	26.7%	0.0%	3.3%
	Laurel Regional Hospital	0.3%	15.7%	26.8%	27.0%	7.9%	15.6%	3.9%	0.0%	2.9%
	Prince George's Hospital Center	0.2%	39.1%	36.3%	17.0%	2.8%	3.9%	0.5%	0.0%	0.3%
	Southern Maryland Hospital Center	0.2%	2.8%	14.3%	46.1%	14.5%	20.8%	1.2%	0.0%	1.941
	Total	0.2%	24.4%	27.8%	27.9%	7.2%	10.7%	1.3%	0.0%	5.948
<u>St. Mary's</u>	St. Mary's Hospital	0.2%	1.4%	32.6%	14.0%	13.7%	13.2%	1.6%	0.0%	23.4%
SOUTHERN MARYLAND TOTAL		0.2%	17.4%	27.6%	29.1%	11.3%	10.3%	1.2%	0.0%	3.1%
<u>Anne Arundel</u>	Anne Arundel Medical Center	0.1%	4.2%	12.4%	34.1%	24.1%	24.2%	0.2%	0.0%	0.7%
	North Arundel Hospital	0.0%	30.8%	17.9%	15.4%	15.4%	20.5%	0.2%	0.0%	4.826
	Total	0.1%	4.5%	12.5%	34.0%	24.0%	24.1%	0.2%	0.0%	39
<u>Baltimore County</u>	Franklin Square Hospital	0.2%	6.0%	34.6%	23.8%	18.1%	15.0%	0.6%	0.0%	3.000
	Greater Baltimore Medical Center	0.9%	0.7%	3.5%	44.7%	33.5%	15.7%	0.5%	0.0%	4.660
	Northwest Hospital Center	5.6%	11.1%	22.2%	5.6%	22.2%	27.8%	5.6%	0.0%	18
	St. Joseph Hospital	0.2%	2.4%	10.4%	19.7%	37.6%	28.6%	0.9%	0.0%	2.343
	Total	0.5%	2.7%	14.4%	32.5%	29.8%	18.5%	0.6%	0.0%	10.021

Table 18. Acute Care Obstetric Service Payer Mix, Percent of Cases by Payer: Maryland Hospitals, 2001

Region/ Jurisdiction	Hospital Name	Source of Payment						Total Cases	
		Medicare	Medicaid	HMO	Blue Cross	Commercial	Self Pay	No Charge	Other
Baltimore City	Bon Secours Hospital	9.1%	0.0%	54.5%	0.0%	0.0%	36.4%	0.0%	0.0%
	Good Samaritan Hospital	0.0%	15.0%	35.0%	15.0%	20.0%	10.0%	0.0%	0.0%
	Harbor Hospital	0.2%	6.3%	38.9%	24.2%	15.1%	1.1%	0.0%	0.2%
	Johns Hopkins Bayview Medical Ctr.	0.9%	15.8%	52.3%	15.5%	7.7%	3.5%	0.0%	2.4%
	Johns Hopkins Hospital	0.7%	8.8%	51.5%	14.3%	12.0%	11.8%	0.5%	0.5%
	Kemper Hospital								11
	Maryland General Hospital	0.4%	8.7%	78.3%	4.4%	6.2%	1.4%	0.6%	0.0%
	Mercy Medical Center	0.1%	7.5%	54.5%	16.1%	11.9%	9.4%	0.5%	0.0%
	Sinai Hospital of Baltimore	0.3%	7.3%	29.9%	21.9%	26.6%	13.3%	0.6%	0.1%
	St. Agnes Hospital	0.3%	7.2%	27.2%	20.2%	20.8%	23.2%	0.9%	0.1%
	Union Memorial Hospital	0.2%	16.6%	50.3%	11.5%	12.3%	6.9%	1.4%	2.0%
	University of Maryland Total	0.8%	7.0%	57.8%	9.2%	16.1%	7.2%	1.4%	0.8%
		0.4%	8.6%	46.9%	16.4%	15.0%	11.3%	0.9%	1.659
									16.851
Carroll	Carroll County General Hospital	0.1%	1.1%	19.2%	30.0%	24.1%	25.1%	0.4%	0.0%
Harford	Harford Memorial Hospital	0.0%	25.0%	50.0%	0.0%	0.0%	25.0%	0.0%	0.0%
	Upper Chesapeake Medical Center	0.1%	3.3%	30.8%	19.2%	19.1%	22.1%	0.5%	4.9%
	Total	0.1%	3.4%	30.9%	19.2%	19.0%	22.1%	0.5%	4.9%
Howard	Howard County General Hospital	0.1%	4.4%	9.8%	36.1%	23.5%	24.7%	1.2%	0.0%
CENTRAL MARYLAND TOTAL		0.3%	5.7%	29.0%	25.3%	21.3%	16.9%	0.7%	0.7%
Cecil	Union Hospital of Cecil	0.4%	2.8%	44.2%	19.3%	16.3%	14.9%	2.1%	0.0%
Dorchester	Dorchester General Hospital	0.0%	42.9%	14.3%	28.6%	0.0%	14.3%	0.0%	0.0%
Kent	Kent & Queen Anne's Hospital	0.0%	6.0%	34.3%	23.6%	24.9%	9.4%	1.7%	0.0%
Somerset	E. W. McCready Memorial Hospital	0.0%	25.0%	0.0%	0.0%	50.0%	0.0%	25.0%	0.0%
Talbot	Memorial Hospital at Easton	0.0%	6.2%	45.0%	30.8%	9.8%	7.2%	1.1%	0.0%
Wicomico	Peninsula Regional Medical Center	0.2%	5.3%	43.4%	19.2%	13.3%	17.3%	1.2%	0.0%
Worcester	Atlantic General Hospital	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%
EASTERN SHORE TOTAL		0.2%	5.2%	43.4%	22.4%	13.6%	13.9%	1.4%	0.0%
MARYLAND TOTAL		0.2%	8.2%	26.0%	30.7%	17.8%	14.8%	1.1%	1.1%
									72,595

Source: Maryland Hospital Discharge Abstract

APPENDIX:

Description of Forecast Methodology

Methodology for Forecasting Future Average Daily Census for Hospital Inpatient Obstetric Services.

The Commission uses the methodology described in this section to forecast future utilization of hospital inpatient obstetric services. The primary objective of this methodology is to provide a framework for rational decisions about future hospital inpatient obstetric services utilization.

Period of Time Covered. The base year from which the forecast is calculated is the most recent calendar year for which birth data from the Vital Statistics Administration are available. The target year to which the forecast is calculated is five years after the base year.

Service Definition. Forecasts are made for obstetric services based on patient records with principal diagnoses in DRGs 370-379 and 382-384. No forecasts are made for newborn services, and records with principal diagnoses in DRGs 385-391 are excluded from the calculations.

Assumptions. Future acute inpatient obstetric services average daily census is forecast by jurisdiction of utilization. The Commission bases utilization forecasts on projected trends in births, current patterns of migration, and expectations about average lengths of stay. Jurisdictional forecasts reflect changes in jurisdictional variations in average lengths of stay. Inter-jurisdictional and interstate patterns of migration from area of residence to jurisdiction of utilization remain constant from the base year to the target year.

Figure A1 shows our projection of trends in average length of stay, which are adjusted on a county-specific basis and applied to forecasted discharges to yield the average daily census by jurisdiction. Target year statewide expected average lengths of stay are as follows:

Figure A1. Projected Average Length of Stay

DRG Category	Target Year Expected Length of Stay	
	Minimum	Maximum
Cesarean Section Deliveries	3.95	4.15
All Other Obstetric Discharges	2.15	2.35

Data Sources. Base year estimates of births, by area of residence and jurisdiction of care, are obtained from the latest available complete year of resident and recorded births by area of residence and jurisdiction of care from the most recent Department of Health and Mental Hygiene tabulations of birth certificates. The latest available complete year of births to Maryland residents, by area of residence, in federal and military hospitals in Maryland are obtained from the most recent Department of Health and Mental Hygiene tabulations of birth certificates. Forecasts of future resident births to Maryland residents, by area of mother's residence are obtained from the most recent Maryland Department of Planning projections. Base

year utilization of Maryland hospital inpatient obstetric services, including age, principal diagnosis on admission and area of residence of each patient, are obtained from the Commission's hospital discharge abstract data.

Method of Calculation to Forecast Future Acute Inpatient Obstetric Services Utilization.

(1) When area of Maryland residence is equal to jurisdiction of care, calculate the target year number of births, by jurisdiction of care, by subtracting from the target year number of births, by area of residence, the product of the base year percent of births to residents of the area in all other jurisdictions of care, by area of residence, and the target year number of births, by area of residence, and subtracting from the result the product of the base year percent of births in federal hospitals, by area of residence, and the target year number of births, by area of residence.

(2) When area of Maryland residence is not equal to jurisdiction of care, calculate the target year number of births, by jurisdiction of care, by the following steps:

- Determine the percent of births by residents of other areas of Maryland in the jurisdiction of care (steps a and b):

(a) Determine the base year percent of in-migration for deliveries to residents of other areas of Maryland.

(b) Determine the base year percent of births in the jurisdiction of care that is not due to in-migration. Divide (a) by this percent. This calculation yields an adjustment of the base year percent of in-migration.

- Determine the number of births by residents of the jurisdiction of care (steps c and d):

(c) Determine the base year percent births in jurisdiction of care to residents of the jurisdiction of care.

(d) Multiply the percent obtained in (c) by the target year number of births in the jurisdiction of residence to obtain the number of births by the residents of the jurisdiction of care.

- Determine the number of births by residents of other areas of Maryland in the jurisdiction of care (step e).

(e) Multiply the percent obtained in (d) by the number obtained in (b).

(3) Calculate the target year number of births in Maryland, by jurisdiction of care, by summing, over all Maryland areas of residence, the target year number of births, by area of residence and jurisdiction of care (Tables A5 and A6).

(4) Calculate the percent of obstetrical discharges not resulting in births, by jurisdiction of care, by dividing the base year number of obstetrical discharges in non-birth related DRGs (376-379 and 382-384) by the total base year number of obstetrical discharges in all DRGs, by jurisdiction of care.

(5) Calculate the target year number of discharges, by jurisdiction of care, by multiplying the target year number of births, by jurisdiction of care, by the sum of one and the proportion of obstetrical discharges not resulting in births, by jurisdiction of care, and adding the result to the base year number of out-of-state discharges, by jurisdiction of care (from Table A1).

(6) Using the values found in Figure A1 above, calculate the proportional statewide change in average length of stay, by DRG category, by subtracting the target year expected average length of stay, by DRG category, from the base year average length of stay, by DRG category, and dividing the result by the base year average length of stay, by DRG category.

(7) Calculate the minimum and maximum adjusted target year average length of stay, by jurisdiction of care, by summing over both DRG categories, multiplying the product of one minus the proportional statewide change in average length of stay, by DRG category, the base year average length of stay, by DRG category, and the number of discharges in the base year by DRG category, and dividing the result by the sum of the number of discharges in the base year, by DRG category.

(8) Calculate the number of patient days projected in the target year, by jurisdiction of care, by multiplying the number of discharges projected in the target year, by jurisdiction of care, by the adjusted target year length of stay, by jurisdiction of care.

(9) Calculate the average daily census, by jurisdiction of care, by dividing the target year number of patient days, by jurisdiction of care, by 365.

Mathematical Formulas. The utilization forecast methodologies described above are shown in this section in mathematical form. Terms are defined in alphabetical order in the following table:

<u>Term</u>	<u>Definition</u>
d	discharge type, where 1 = Cesarean Section deliveries (DRGs 370-371), 2 = vaginal deliveries (DRGs 372-375) and 3 = post partum and ante partum diagnoses (DRGs 376-379, 382-384)
i	area of residence, where 1 ... 24 = Maryland jurisdictions and 25, ..., 48 = out-of-state areas
j	jurisdiction of care, where 1, ..., 24 = Maryland jurisdictions
m	minimum and maximum, where 1 = minimum and 2 = maximum
ADC	average daily census
ATLOS	adjusted target year average length of stay
BBIR	base year number of births
BDIS	base year number of discharges
BLOS	base year average length of stay
BODIS	base year number of out-of-state discharges
BPBIRFH	base year percent of births in federal hospitals
BPROIM	base year percent of in-migration for discharges resulting in deliveries to residents of other areas in Maryland
BPROOM	base year percent births to residents of an area in all other jurisdictions of utilization
CHLOS	statewide proportional change in average length of stay
NBDIS	non-birth discharges
PRNONBIR	percent of obstetrical discharges not resulting in births
TBIR	target year number of births in Maryland
TDIS	target year number of discharges
TELOS	target year expected average length of stay
TLOS	target year average length of stay
TPD	target year patient days

Formulas. Forecasted obstetric services average daily census is calculated as shown in the following formulas:

$$(1) \text{ When } i = j, TBIR_{ij} = TBIR_i - [(BPROOM)(TBIR)_i] - [(BPROFH_i)(TBIR_i)]$$

$$(2) \text{ When } i \leq 24 \text{ and } i \neq j, TBIR_{ij} = \frac{\{(TBIR_i)([BPROIM_{ij}])\}}{\{[BPROIM_{ij}/(1 - BPROIM_{ij})] * (1 - BPROOM_j)(TBIR_i)\}}$$

$$(3) TBIR_j = \sum_{i=1}^{24} TBIR_{ij}$$

$$(4) PRNONBIR_j = \underline{NBDIS_{d3j}} / \underline{BDIS_j}$$

$$(5) TDIS_j = [(1 + PRNONBIR_j)(TBIR_j)] + BODIS_j$$

$$(6) CHLOS_{d1, 2+3m} = [(BLOS_d - TELOS_{dm})] / BLOS_d$$

$$(7) ATLOS_{jm} = \sum_d [(1 - CHLOS_{dm})(BLOS_{jd})] [(BDIS_{jd}) / (BDIS_{jd})]$$

$$(8) TPD_j = (TDIS_j)(ATLOS_j)$$

$$(9) ADC_j = TPD_j / 365$$